

July 27, 2010

Mr. Dan McCaskill, CIH **BNSF Railway Company** 2600 Lou Menk Drive Fort Worth, TX 76161

Re: **BNSF Asbestos Exposure Sampling Report** 

**BNSF Kootenai River Subdivision- Mileposts 1307 to 1341** 

**EPA Operable Unit 6** March 29-April 8, 2010 **EMR Project No. 9329-001** 

Dear Mr. McCaskill:

EMR, Inc. (EMR) was contracted by the BNSF Railway Company (BNSF) to conduct Asbestos Exposure Sampling on two BNSF Rail Gangs conducting rail and other track component replacement. The primary purpose of this Asbestos Exposure Sampling event was to gather sufficient and representative air quality data to determine whether asbestos fiber releases were being created by track maintenance activities. This data allows BNSF Industrial Hygiene to determine worker exposure risk and whether current engineering controls and prescribed personal protective equipment are sufficient to protect BNSF workers. A secondary function of this sampling event was to collect air quality data from near the BNSF property boundary (stationary air samples). In the event that maintenance activities did create a fiber release, this data would be used to determine whether the release could impact off-site receptors.

The maintenance work and associated sampling occurred along select portions of the BNSF right-of-way located between BNSF Milepost (MP) 1308.5 and MP 1344 from March 29<sup>th</sup> through April 8th. These locations are within the United States Environmental Protection Agency (EPA)-defined Operable Unit 6 (OU6). OU6 is the designation for BNSF-owned property that may have been impacted by the loading and hauling of asbestos contaminated vermiculite. OU6 is roughly centered on Libby, Montana (MP 1319.5) and extends east to approximately MP 1301 and west to approximately MP 1341 (Figure 1).

Potential worker hazards within OU6 consist of the possible disturbance of previously-deposited tremolite and related mineral fibers during rail maintenance activities. Asbestos fibers within the track structure are associated with rail transport of W.R. Grace vermiculite ore or processed Zonolite shipped on this line through approximately 1990, the date of the mine closure.

#### **ON-SITE PERSONNEL**

A two person team consisting of EMR employees Mike McKay and Amanda Thornton were mobilized to the Site to conduct the sampling effort. The focus of the sampling activities was BNSF Rail Gangs, designated RP-11 and RP-21, that were conducting routine track component replacement within OU6. Each gang consisted of approximately 30 BNSF personnel and approximately 20 on-track machines. No EPA or CDM personnel were present at any time during sampling activities.

#### SAMPLING OVERVIEW

EMR mobilized to Libby, Montana on March 28, 2010 to conduct sampling from March 29 through April 1 and April 5 through April 8, 2010 that encompassed all work conducted by both RP-11 and RP-21 during their time in OU6. Sampling consisted of the daily collection of two (2) types of samples from each gang; 1) personal air samples, and 2) stationary air samples.

Five (5) personal air samples were collected from a mixture of machine operators and laborers. Every attempt was made to collect a representative cross section of personnel during each sampling day to assess conditions for workers at various positions throughout the gangs.

Two (2) stationary air samples were collected from within the maintenance area to assess ambient air quality during the entire work cycle. In order to capture the complete work cycle stationary sample collection began prior to the arrival of the first machine and continued until the last machine had passed the sampling location. The stationary air samples were positioned according to the following criteria (in order of preference);

- between the maintenance area and any possible public receptors (residence, park, etc) or:
- downwind of the maintenance area (when potential public receptors were not present)

The methods and equipment used to collect these both the personal and stationary samples are discussed below.

#### SAMPLING METHODS AND EQUIPMENT

#### Personal Air Sample Collection

The personal air sampling program utilized Gillian BDX II personal air pumps with starting flow rates set at 2.0 L/m. Flow rates were checked at the beginning and end of the sampling period with a calibrated rotameter. The pumps were equipped with Zefon 25mm Phase Contrast Microscopy (PCM) cassettes and 0.8 µm Mixed Cellulose Ester (MCE) filters, which were utilized for analysis by Transmission Electron Microscopy (TEM) and Asbestos Hazard Emergency Response Act (AHERA) methods. All samples were submitted for AHERA TEM analysis by EMSL Analytical Inc.'s (EMSL) Libby, Montana laboratory. A total of 65 personal air samples were collected during the sampling event (Table 1).

#### Stationary Air Sample Collection

Stationary air samples were collected each sampling day to evaluate ambient air quality adjacent to the maintenance area. The objective of the stationary sampling was to evaluate the air quality at two distinct locations throughout the entire maintenance cycle.

Stationary air samples were collected using EMS Megalite high-volume air pumps equipped with Zefon 25mm PCM cassettes with 0.8 μm MCE filters. The high volume air pumps were powered by portable generators. The filters were suspended approximately four (4) feet above ground surface with the filter opening facing downward to prevent the deposition of foreign material on the filter. Both stationary samples were collected within approximately 100 feet of each other and approximately 25 feet from the mainline. Both samples were collected from the same side of the main line and located according to the above-listed criteria.

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Stationary air pumps were checked and adjusted daily to achieve flow rates between 8 and 8.5 L/m as determined with a calibrated rotameter. All stationary air samples were submitted to EMSL for AHERA TEM analysis.

#### Blank Collection

An open control blank was collected for each gang on each day of sampling. The blanks were collected by opening and resealing the filter cassette under normal sampling conditions. All blanks were submitted to EMSL for TEM analysis. Additionally, closed blanks were collected but were not submitted for analysis.

#### **Laboratory Methods**

AHERA TEM analytical methods were chosen since they are widely applied to determine compliance with the OSHA Permissible Exposure Limit (PEL). The AHERA TEM method simply counts the number of fibers in known sample area that are greater than 5µm in length and through visual inspection at a magnification of 20,000. As per 40 CFR Chapter I - Part 763, acceptable sensitivity for this method is no greater than 0.005 s/cc.

Due to adverse weather conditions, five (5) sample filters were damaged and were not able to be analyzed by the laboratory (Table 1).

Due to variable levels of filter loading, several samples required indirect preparation to facilitate TEM analysis. Indirect preparation methods were employed on nine (9) samples (Table 1). A brief description of indirect preparation process is described below.

#### Indirect Preparation

- Sample resuspended in 100mL particle water
- Fractions filtered (10, 15, 25 and 50mL) on 0.2 µm filter backed by 5.0 µm filter.
- Selected volume processed to grids

It should be noted that indirect preparation methods require dilution that results in an increase of analytical sensitivity.

#### Sample Identification

Each laboratory sample was assigned a unique sample identification that consisted of the sample type (P = Personal, S = Stationary), the initials of the sampled person (personal samples) or the approximate milepost for stationary samples and the date of sample collection. For example, P-NS-032910, designates a personal sample collected from Niles Singer on March 29, 2010.

### **DAILY ACTIVITY**

The following is a daily summary of sampling activities for RP-11 and RP-22. Following the body of the report are site location maps, photolog of work activities (Attachment A), air monitoring data sheets with PCM air monitoring results (Attachment B), and complete laboratory reports and chain of custody forms from EMSL (Attachment C).

### **RP-11**

### March 29, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1338.7 and MP 1339.4 (Figure 1):

> **Niles Singer Assistant Foreman**

Russ Lemanyun Sectionman Chris Bradford **Truck Driver** 

Jermel Brown Cribber/Adzer Operator

Brant Wisenburger Laborer

The sample collected from Chris Bradford was damaged and was not able to analyzed.

Two stationary air samples were collected at approximately MP 1339.

#### March 30, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1335.1 and MP 1338.1 (Figure 1):

> Chris Bradford **Truck Driver**

**Niles Singer** Assistant Foreman

Brant Wisenburger **Truck Driver** 

Jermel Brown Cribber/Adzer Operator

Russ Lemanyun Sectionman

Two stationary air samples were collected at approximately MP 1338.

### March 31, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1331.8 and MP 1332.5 (Figure 1):

> **Troy Webster Pregauger Operator** Lynnard Spiry **Assistant Foreman Thomas Swift** Rail Heater Operator Jermel Brown Cribber/Adzer Operator

Kasey Kerwin Laborer

Two stationary air samples were collected at approximately MP 1332.

### April 1, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1324.5 and MP 1330 (Figure 1):

> Brant Wisenburger Truck Driver

Jermel Brown Cribber/Adzer Operator Niles Singer Assistant Foreman

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Kasey Kerwin Laborer Chris Bradford **Truck Driver** 

Two stationary air samples were collected at approximately MP 1329.7.

### April 5, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1310.8 and MP 1311.6 (Figure 1):

> Niles Singer Assistant Foreman

Brant Wisenburger Laborer

**Troy Webster Pregauger Operator** Jermel Brown Cribber/Adzer Operator

**Thomas Swift** Rail Heater

The samples collected from Brant Wisenburger and Tyler Annala were damaged and not able to be analyzed.

Two stationary air samples were collected at approximately MP 1311.

### April 6, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1308.7 and MP 1309.5 (Figure 1):

> Clipper Operator Brant Wisenburger Cribber/Adzer Operator Jermel Brown **Niles Singer** Assistant Foreman Chris Bradford **Truck Driver**

> Tyler Annala **SARS Machine Operator**

Two stationary air samples were collected at approximately MP 1311.

Sampling of RP-11 concluded on April 6 after all scheduled maintenance was completed within OU6.

### **RP-21**

### March 29, 2010

No sampling was conducted on RP-21 since no maintenance was conducted within OU6.

#### March 30, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1340 and MP 1344 (Figure 1):

> Ron Hayes Sectionman John Hobbs Sectionman Brian Gartman **Group 5 Operator Group 5 Operator** Randy Finley **Trevor Beers Plugger Operator**

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Stationary air samples were collected at approximately MP 1341.8 and MP 1342.

#### March 31, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1338 and MP 1340 (Figure 1):

> Eric Hofpar Machine Operator

John Hobbs Sectionman

Clinton Combs Assistant Foreman

Carson Poore Trackman Andrew Smith Grinder

The sample collected from Eric Hofpar was damaged and was not able to analyzed.

Stationary air samples were collected at approximately MP 1341.8 and MP 1342.

### April 1, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1331.8 and MP 1332.5 (Figure 1):

> **Trevor Beers** Tie Plugger Operator

John Hobbs Sectionman Ron Hayes Sectionman Allen Gehrke Foreman Brian Albro **Truck Driver** 

Stationary air samples were collected at approximately MP 1332.0 and MP 1332.1.

#### April 5, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1330 and MP 1332 (Figure 1):

> Tony Cox Group 5 Operator **Andrew Smith Grinder Operator**

Doug Throop Laborer Carson Poore Trackman

Randy Finley **Group 5 Operator** 

Stationary air samples were collected at approximately MP 1324.0 and MP 1324.1. It should be noted that the stationary air samples were collected outside of the work area, due changes in the planned work that were not communicated to EMR.

### April 6, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1322.06 and MP 1322.38 (Figure 1):

> Plugger Operator **Trevor Beers**

Carson Poore Trackman

Sean Hunter **Machine Operator** 

Randy Finley Group 5 Ryan Tucker Welder

Stationary air samples were collected at approximately MP 1322.06 and MP 1322.07.

#### April 7, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1310.8 and MP 1311.6 (Figure 1):

> Group 5 Operator Tony Cox Sean Hunter **Machine Operator**

Mike O'Leary Laborer

Eric Hofpar Machine Operator John Hobbs Sectionman

The sample collected from Eric Hofpar was damaged and was not able to analyzed.

Stationary air samples were collected at approximately MP 1310.6 and MP 1310.7.

### April 8, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1308.5 and MP 1308.9 (Figure 1):

> John Hobbs Sectionman Ron Hayes Sectionman Carson Poore Trackman Ryan Tucker Welder

Brian Gartman **Group 5 Operator** 

Stationary air samples were collected at approximately MP 1310.6 and MP 1310.7.

Sampling of RP-21 concluded on April 8 after all scheduled maintenance was completed within OU6.

#### **SAMPLING RESULTS**

The following is a discussion of the results of laboratory analysis of each sample type. Laboratory reports and chain-of-custody forms are found in Attachment C.

#### Personal Air Samples

A total of 60 personal air samples were collected and submitted for TEM analysis. All samples were non-detect for asbestos fibers (Table 1). Of the 60 samples, ten (10)

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samples were indirectly prepared and the remaining samples were prepared directly. The target sensitivity (0.005 s/cc) was met on all samples, excluding indirectly prepared samples.

### **Stationary Air Samples**

A total of 26 stationary air samples were collected and analyzed. All samples were nondetect for asbestos fibers (Table 1). All sample met the target sensitivity.

A total of 13 control blanks were submitted for TEM analysis. All blanks were non-detect for asbestos (Table 1).

EMR sincerely appreciates the opportunity to assist you on this project. If you have any questions, please call me at (218) 625-2331.

Sincerely,

EMR, Inc.,

Scott Carney PG, CHMM

Project Manager

Att: Table 1

Figure 1

Attachment A - Project Photolog

Attachment B - Air Monitoring Data Sheets

Attachment C – EMSL Laboratory Reports and Chain of Custody Forms

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#### Table 1. Summary of Air Sampling Results BNSF Tie Gangs RP-11/RP-21 BNSF Kootenai River Subdivision March 29 - April 8, 2010 EMR Project #9329-001

					Analytical	Volume	Sensitivity	Results					Preparation
Sample ID	Sample Date	Sampler	Analysis Date	Laboratory	Method	(L)	(S/cc)	(S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	D/A/IA
P-NS-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	844	0.0044	ND	Niles Singer	7334600	Asst. Foreman	1338.7-1339.4	D
P-RL-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	843	0.0330	ND	Russ Lemanyun	1751890	Sectionman	1338.7-1339.4	ID
P-CB-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	849		NA-FD	Chris Bradford	1751909	Truck Driver	1338.7-1339.4	
P-JB-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	841	0.0044	ND	Jermel Brown	1749712	Cribber/Adzer	1338.7-1339.4	D
P-BW-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	838	0.0044	ND	Brant Wisenburger	1791193	Laborer	1338.7-1339.4	D
S-1338W-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	3,126	0.0024	ND	NA	NA	NA	1339	D
S-1338E-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	3,126	0.0044	ND	NA	NA	NA	1339	D
CB-OPEN-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-CB-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,239	0.1500	ND	Chris Bradford	1751908	Truck Driver	1335.1-1338.1	ID
P-NS-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,064	0.0046	ND	Niles Singer	7334600	Asst. Foreman	1335.1-1338.1	D
P-BW-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,036	0.0048	ND	Brant Wisenburger	1791133	Truck Driver	1335.1-1338.1	D
P-JB-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,050	0.0047	ND	Jermel Brown	1749712	Cribber/Adzer	1335.1-1338.1	D
P-RL-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,141	0.1500	ND	Russ Lemanyun	1751890	Sectionman	1335.1-1338.1	ID
S-1338W-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	2,100	0.0035	ND	NA	NA	NA	1338	D
S-1338E-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	2,100	0.0035	ND	NA	NA	NA	1338	D
CB-OPEN-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-RH-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	732	0.004	ND	Ron Hayes	1776343	Sectionman	1340-1344	D
P-JH-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	730	0.0041	ND	John Hobbs	1775048	Sectionman	1340-1344	D
P-BG-033010	3/30/2010	ММС	4/2/2010	EMSL	AHERA	722	0.0041	ND	Brian Gartman	1791078	Group 5	1340-1344	D
P-RF-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	728	0.0037	ND	Randy Finley	1714914	Group 5	1340-1344	D
P-TB-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	748	0.004	ND	Trevor Beers	1660828	Plugger	1340-1344	D
S-1341.8W033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	NA	NA	NA	1341.8	D
S-1342E033010	3/30/2010	ММС	4/2/2010	EMSL	AHERA	2,128	0.0035	ND	NA	NA	NA	1342	D
BK-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-TW-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	732	0.0040	ND	Troy Webster	1776350	Pregauger Operator	1331.8-1332.5	D
P-LS-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	730	0.0041	ND	Lynnard Spiry	1620079	Asst. Foreman	1331.8-1332.5	D
P-TS-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	722	0.0041	ND	Thomas Swift	1782010	Rail Heater	1331.8-1332.5	D
P-JB-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	728	0.0037	ND	Jermel Brown	1749712	Cribber/Adzer	1331.8-1332.5	D
P-KK-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	748	0.0040	ND	Kasey Kerwin	1720192	Laborer	1331.8-1332.5	D
S-1332W-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	, NA	NA	NA	1332	D
S-1332E-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	NA	NA	NA	1332	D
CB-OPEN-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-EH-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	926		NA-FD	Eric Hofpar	1748573	Machine Operator	1338-1340	
P-JH-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	918	0.0046	ND	John Hobbs	1775048	Sectionman	1338-1340	D
P-CC-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	912	0.0046	ND	Clinton Combs	1746768	Asst. Foreman	1338-1340	D
P-CP-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	912	0.0046	ND	Carson Poore	1782028	Trackman	1338-1340	D
P-AS-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	914	0.0046	ND	Andrew Smith	1790633	Grinder	1338-1340	D
S-1339.3W033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	2.170	0.0034	ND	NA NA	NA NA	NA	1339.3	D
S-1339.4E033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	2,170	0.0034	ND	NA NA	NA NA	NA NA	1339.4	D
BK-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA NA	NA NA	NA	D
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					Analytical	Volume	Sensitivity	Results					Preparation
Sample ID		Sampler	Analysis Date	Laboratory	Method	(L)	(S/cc)	(S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	D/A/IA
P-BW-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	725	0.0045	ND	Brant Wisenburger	1791193	Truck Driver	1324.5-1330.0	D
P-JB-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	825	0.0045	ND	Jermel Brown	1749712	Cribber/Adzer	1324.5-1330.0	D
P-NS-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	809	0.0046	ND	Niles Singer	7334600	Asst. Foreman	1324.5-1330.0	D
P-KK-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	713	0.0046	ND	Kasey Kerwin	1720192	Laborer	1324.5-1330.0	D
P-CB-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	631	0.0047	ND	Chris Bradford	1751908	Truck Driver	1324.5-1330.0	D
S-1329.7W-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	2,225	0.0033	ND	NA	NA	NA	1329.7	D
S-1329.7E-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	2,225	0.0033	ND	NA	NA	NA	1329.7	D
CB-OPEN-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-TB-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	940	0.0045	ND	Trevor Beers	1660828	Tie Plugger	1331.8-1332.5	D
P-JH-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	912	0.0045	ND	John Hobbs	1775048	Sectionman	1331.8-1332.5	D
P-RH-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	914	0.0046	ND	Ron Hayes	1776343	Sectionman	1331.8-1332.5	D
P-AG-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	918	0.0046	ND	Allen Gehrke	2090806	Foreman	1331.8-1332.5	D
P-BA-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	936	0.0046	ND	Brian Albro	7460306	Truck Driver	1331.8-1332.5	D
S-1332.0W040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	2,380	0.0043	ND	NA NA	7400300 NA	NA	1332.0	D
S-1332.1E040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	2,394	0.0031	ND	NA NA	NA NA	NA NA	1332.0	D
BK-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	2,394 NA	0.0031	ND	Control Blank - Open	NA NA	NA NA	1332.1 NA	D
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P-NS-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	969	0.0290	ND	Niles Singer	7334600	Asst. Foreman	1310.8-1311.6	ID
P-BW-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	973	0.0110	ND	Brant Wisenburger	1791193	Laborer	1310.8-1311.6	ID
P-TW-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	975	0.0043	ND	Troy Webster	1776350	Pregauger Operator	1310.8-1311.6	D
P-JB-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	974	0.0043	ND	Jermel Brown	1749712	Cribber/Adzer	1310.8-1311.6	D
P-TS-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	968	0.0044	ND	Thomas Swift	1782010	Rail Heater	1310.8-1311.6	D
S-1311W-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	2,250	0.0033	ND	NA	NA	NA	1311	D
S-1311E-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	2,250	0.0033	ND	NA	NA	NA	1311	D
CB-OPEN-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-TC-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	860	0.0049	ND	Tony Cox	1750249	Group 5	1330-1332	D
P-AS-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	924	0.0046	ND	Andrew Smith	1790633	Grinder	1330-1332	D
P-DT-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	894	0.0047	ND	Doug Throop	7351133	Laborer	1330-1332	D
P-CP-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	858	0.0049	ND	Carson Poore	1782028	Trackman	1330-1332	D
P-RF-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	916	0.0046	ND	Randy Finley	1714914	Group 5	1330-1332	D
S-1324-09W040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	2,772	0.0027	ND	NA	NA	NA	1324.0	D
S-1324.1E040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	2,765	0.0027	ND	NA	NA	NA	1324.1	D
BK-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-TB-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	624	0.0047	ND	Trevor Beers	1660828	Plugger	1322.06-1322.38	D
P-CP-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	760	0.0049	ND	Carson Poore	1782028	Trackman	1322.06-1322.38	D
P-SH-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	758	0.0049	ND	Sean Hunter	1767029	Machine Operator	1322.06-1322.38	D
P-RF-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	776	0.0048	ND	Randy Finley	1714914	Group 5	1322.06-1322.38	D
P-RT-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	788	0.0350	ND	Ryan Tucker	1773621	Welder	1322.06-1322.38	ID
S-1322.06W-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	2,226	0.0033	ND	NA	NA	NA	1322.06	D
S-1322.07E-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	2,212	0.0033	ND	NA	NA	NA	1322.07	D
BK-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA NA	NA NA	NA NA	D
	., -,3		, ==, == 10										-

### Table 1. Summary of Air Sampling Results BNSF Tie Gangs RP-11/RP-21 BNSF Kootenai River Subdivision March 29 - April 8, 2010 EMR Project #9329-001

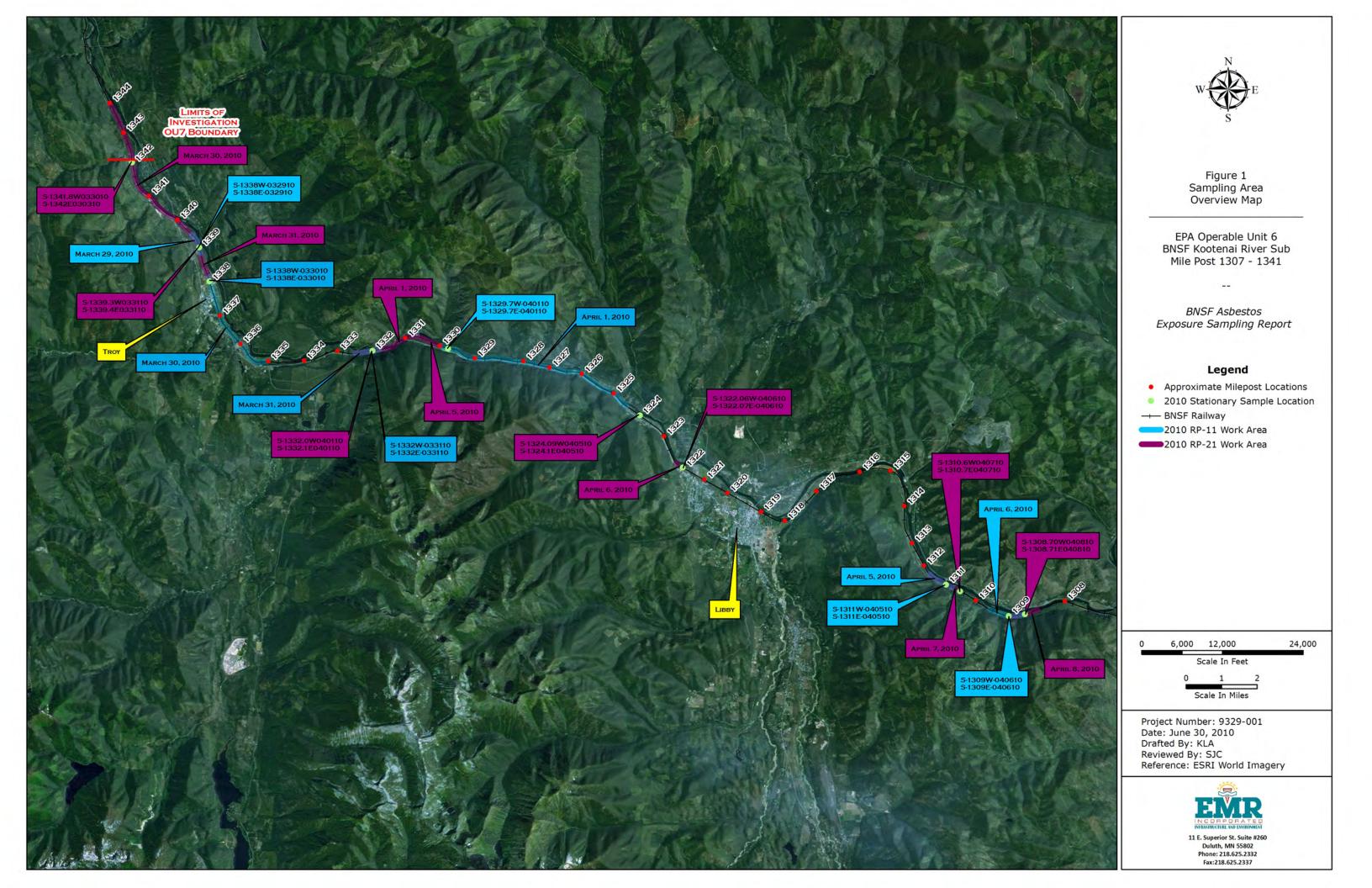
					Analytical	Volume	Sensitivity	Results					Preparation
Sample ID	Sample Date	Sampler	Analysis Date	Laboratory	Method	(L)	(S/cc)	(S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	D/A/IA
P-BW-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	870		NA-FD	Brant Wisenburger	1791193	Clipper Operator	1308.7-1309.5	
P-JB-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	884	0.0048	ND	Jermel Brown	1749712	Cribber/Adzer	1308.7-1309.5	D
P-NS-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	872	0.0049	ND	Niles Singer	7334600	Asst. Foreman	1308.7-1309.5	D
P-CB-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	864	0.2100	ND	Chris Bradford	1751908	Truck Driver	1308.7-1309.5	ID
P-TA-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	865		NA-FD	Tyler Annala	1790401	SARS Machine Op.	1308.7-1309.5	
S-1309W-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	1,806	0.0041	ND	NA	NA	NA	1309	D
S-1309E-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	1,816	0.0040	ND	NA	NA	NA	1309	D
CB-OPEN-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-TC-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	934	0.0045	ND	Tony Cox	1750249	Group 5	1310.8-1311.6	D
P-SH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	854	0.005	ND	Sean Hunter	1767029	Machine Operator	1310.8-1311.6	D
P-MO-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	864	0.013	ND	Mike O'Leary	1145937	Laborer	1310.8-1311.6	ID
P-EH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	856	NA	NA-FD	Eric Hofpar	1748573	Machine Operator	1310.8-1311.6	
P-JH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	864	0.0064	ND	John Hobbs	1775048	Sectionman	1310.8-1311.6	ID
S-1310.6W040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	2,422	0.0031	ND	NA	NA	NA	1310.6	D
S-1310.7E040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	2,422	0.0031	ND	NA	NA	NA	1310.7	D
BK-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D
P-JH-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	744	0.005	ND	John Hobbs	1775048	Sectionman	1308.5-1308.9	D
P-RH-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	740	0.0044	ND	Ron Hayes	1776343	Sectionman	1308.5-1308.9	D
P-CP-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	742	0.005	ND	Carson Poore	1782028	Trackman	1308.5-1308.9	D
P-RT-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	744	0.0150	ND	Ryan Tucker	1773621	Welder	1308.5-1308.9	ID
P-BG-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	732	0.0045	ND	Brian Gartman	1791078	Group 5	1308.5-1308.9	D
S-1308.70W040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	3,080	0.0024	ND	NA	NA	NA	1308.70	D
S-1308.71E040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	3,080	0.0024	ND	NA	NA	NA	1308.71	D
BK-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	NA		ND	Control Blank - Open	NA	NA	NA	D

Preparation Notes: D = Direct Preparation, I = Indirect,

ND - Not Detected NA - Not Applicable

NAD - Not Analyzed - Filter Damaged









Site Name:BNSF Kootenai River SubSite Location:Libby, Montana AreaDate:March 31, 2010Project No.:9329-001

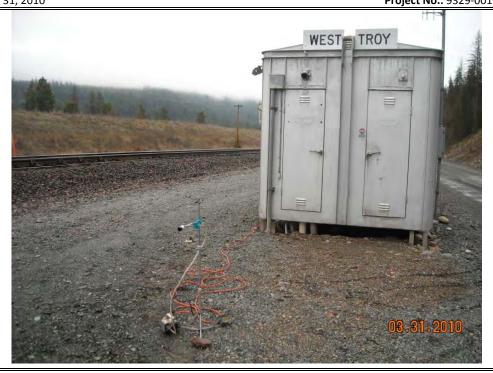


Photo No.1. Overview of typical stationary air sample collection point at West Troy.



Photo No. 2 Typical stationary air sample collection point at West Kootenai Falls.



Site Name:BNSF Kootenai River SubSite Location:Libby, Montana AreaDate:April 1, 2010Project No.:9329-001



Photo No.3. View of BNSF laborer in PPE. Note sample cassette on his left shoulder.



Photo No. 4 View of BNSF machine operator in full PPE.



Site Name:BNSF Kootenai River SubSite Location:Libby, Montana AreaDate:April 1, 2010Project No.: 9329-001



Photo No.5. View of BNSF cribber/adzer working at Kootenai Falls.



Photo No. 6 Overview of RP-11 at Ripley. Note that all personnel are in correct PPE.



Date: 3 30 11 0 Work Area Mileposts: 1344D - 1340 B

Bute: 3190 110	
Sampled Person's Name	Ron Hayes
DAMPICE TO SOME TRAIN	non mayes
BNSF Employee ID	1776343
Job Title	Section Man
	Section wan
Machine Type/Name	Labor
1	-
Pump Number	P-1
	5 5 4 6 2 3 6 4 6
Sample #	P-RH-033010
Starting Flow Rate	2.0
Sample Start Time	
Sample Start Time	08:01
Ending Flow Rate	2 4
	2.0
Sample End Time	14:07
Sample Volume	732
Sampled Person's Name	John Hobbs
BNSF Employee ID	1777
	1775048
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-2
Sample #	P-JH-033010
	<u> </u>
Starting Flow Rate	2.0
Sample Start Time	08:04
	_
Ending Flow Rate	7.0
Sample End Time	14:09
Sample Volume	730
Il Sample Volume	736
Bumple volume	
Sampled Person's Name	Brian Gartman
Sampled Person's Name	Brian Gartman
Sampled Person's Name BNSF Employee ID	Brian Gartman 1791078
Sampled Person's Name BNSF Employee ID Job Title	Brian Fartman 1791078 Group 5
Sampled Person's Name BNSF Employee ID	Brian Fartman 1791078 Group 5
Sampled Person's Name BNSF Employee ID Job Title	Brian Gartman 1791078
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Gartman 1791078 Group 5 Blower
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number	Brian Gartman 1791078 Group 5 Blowcer P-3
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Gartman 1791078 Group 5 Blowcer P-3
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	Brian Gartman 1791078 Group 5 Blowcer P-3 P-BG-033010
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	Brian Gartman 1791078 Group 5 Blowcer P-3 P-BG-033010
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05 2.0 14:06 722
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05 2.0 14:06 722
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05 2.0 14:06 722
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05 2.0 14:06 722
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name	Brian Fartman 1791078 Froup 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title	Brian Fartman 1791078  Group 5  Blowner  P-3  P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914  Group 5
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	Brian Fartman 1791078 Froup 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Gartman 1791078 Group 5 Blowner P-3 P-BG-033010 2.0 08:05  2.0 14:06 722 Randy Finley 17/4914 Group 5 Labor
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Fartman 1791078  Group 5  Blowner  P-3  P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914  Group 5
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Gartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722 Randy Finley 1714914 Group 5 Labor P-4
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	Brian Fartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 17/4914 Group 5 Labor  P-4 P-RF-033010
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	Brian Fartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 17/4914 Group 5 Labor  P-4 P-RF-033010
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate	Brian Fartman 1791078 Group 5 Blowier  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914 Group 5 Labor  P-A P-RF-033010 2.0
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	Brian Fartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 17/4914 Group 5 Labor  P-4 P-RF-033010
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate	Brian Fartman 1791078 Group 5 Blowier  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 1714914 Group 5 Labor  P-A P-RF-033010 2.0
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample # Starting Flow Rate Sample Start Time	Brian Fartman 1791078  Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722  Randy Finley 17/4914  Group 5 Labor  P-A P-RF-033010 2.0 08:06
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	Brian Fartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722 Randy Finley 1714914 Group 5 Labor P-A P-RF-033010 2.0 08:06
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample Flow Rate Sample Start Time  Ending Flow Rate Sample End Time	1791078 Group 5 Blower P-3 P-BG-033010 2.0 08:05 2.0 14:06 722 Randy Finley 1714914 Group 5 Labor P-A P-RF-033010 2.0 08:06
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	Brian Fartman 1791078 Group 5 Blowner  P-3 P-BG-033010 2.0 08:05  2.0 14:06 722 Randy Finley 1714914 Group 5 Labor P-A P-RF-033010 2.0 08:06

Date: 3 30 110 Work Area Mileposts: 1344D - 1340B

Sampled Person's Name:	Trevor Beers
BNSF Employee ID	1660828
Job Title	Plugger
Machine Type/Name	Plugger
Pump Number	<u>P-5                                    </u>
Sample #	P-TB-033010
Starting Flow Rate	2.0
Sample Start Time	07:59
Ending Flow Rate	2.0
Sample End Time	14;13
Sample Volume	748
Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name:	
Sampled Person's Name: BNSF Employee ID	
BNSF Employee ID	
BNSF Employee ID Job Title Machine Type/Name	
BNSF Employee ID Job Title Machine Type/Name Pump Number	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time	
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample Start Time	
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	

Date: 3/30/10 Work Area Mileposts: 13440 - 1340B

Date: 3 30 [10	Work Area Mileposts: 134210 - 1340B
Approx MP of Sample 1	Location (341-8
GPS Coords	N 48.51740 W 115.94685
Receptor Present?	Y /X NIf yes then describe:
Samples Downwind?	Y X / NIf no explain why:
Pump Number	HV-1
Sample #	5-1341.8 W033010
Starting Flow Rate	7.0
Sample Start Time	08:55
F-ding Floor Date	4
Ending Flow Rate	7.0
Sample End Time	14:00
Sample Volume	2 35
Approx MP of Sample I	
GPS Coords	N 48.51740 W 115.94685
Receptor Present	Y / ⋉ N If yes then describe:
Samples Downwind?	Y X / NIf no explain why:
Pump Number	Hy-2
Sample # 2	5-1342 E 033010
Starting Flow Rate	7.0
Sample Start Time	08:57
Ending Flow Rate	7.0
Sample End Time	14:01
Sample Volume	2128
Approx MP of Sample I	
GPS Coords	N W
Receptor Present	Y / NIf yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sample volume	

Notes:

3/31/10 1340B-1338T Date: Work Area Mileposts: Sampled Person's Name: Eric Hof BNSF Employee ID 74857 Job Title Machine Type/Name Pump Number H-033110 Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: John Hobbs BNSF Employee ID 75048 Job Title Machine Type/Name Pump Number 7H - 033110 Sample # Starting Flow Rate Sample Start Time 07:58 Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: Cluton BNSF Employee ID 1741768 Job Title Forman Machine Type/Name Pump Number Sample # P-CC- 033110 Starting Flow Rate 2.0 Sample Start Time 08:00 Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: Carson Poore BNSF Employee ID 17820Z8 Job Title Trackman Machine Type/Name NAPump Number Sample # 2-CP-033110 Starting Flow Rate Sample Start Time <u>08:03</u> Ending Flow Rate Sample End Time Sample Volume

3/31/10 Date: Work Area Mileposts: 1340 B - 13387 Smith Sampled Person's Name: Andrew BNSF Employee ID 1790633 Grinder Job Title Machine Type/Name Pump Number Sample # P-AS- 033110 Starting Flow Rate 08:05 Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time

Sample Volume

Date: 3/31/10 Work Area Mileposts: 13 40B - 1338T

Approx MP of Sámple Location 1339.3

Approx MP of Sámple I	Location 1339.3
GPS Coords	N 48. 49286 W 115. 91483
Receptor Present?	Y / X NIf yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample #	S 1339.3 W 033110
Starting Flow Rate	7.0
Sample Start Time	08:42
Ending Flow Rate	7.0
Sample End Time	/3:52
Sample Volume	2170
Approx MP of Sample L	ocation 1339.4
GPS Coords	N48.49286 W 115.91483
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y \( \) / N If no explain why:
Pump Number	HV-2
Sample # 2	S-1339,4 E033110
Starting Flow Rate	7.0
Sample Start Time	08:43
Ending Flow Rate	7.0
Sample End Time	/3:53
Sample Volume	2170
Approx MP of Sample L	ocation
GPS Coords	N W
Receptor Present	Y / NIf yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Date: 4(1)10	Work Area Mileposts: 1331.8 - 1332.5
Sampled Person's Nam	e: Trevor Beers
BNSF Employee ID	1660828
Job Title	Plusger
Machine Type/Name	Pluger
Pump Number	P-1
Sample #	P-TB-640110
Starting Flow Rate	<u> 7.0</u>
Sample Start Time	08:00
Ending Flow Rate	2.0
Sample End Time	15:50
Sample Volume	<u> </u>
Sampled Person's Nam	e: John Hopps
BNSF Employee ID	1275048
Job Title	Section Man
Machine Type/Name	Libor
,	D 7
Pump Number	P-JH-040110
Sample #	F-3 H-040110
Starting Flow Rate	7.0
Sample Start Time	08-01
Ending Flow Rate	2.0
Sample End Time	/5:37
Sample Volume	912
Sampled Person's Name	e: Ron Haxes
BNSF Employee ID	1776343
Job Title	Scotion Man
Machine Type/Name	Labor
Pump Number	P-3
Sample #	P-RH-040110
Starting Flow Rate	7-0
Sample Start Time	08:03
Ending Flow Rate	2,0
Sample End Time	15:40
Sample Volume	914
Sampled Person's Name	e: ALLen Gehrke
BNSF Employee ID	7090806
Job Title	Foreman
Machine Type/Name	(1)
Widefinic Type/Tvame	
II .	$\mathcal{D}$
Pump Number	T-T
11 -	P-AG-040110
Sample #	P-AG-040110 2-0
11 -	2-0
Sample # Starting Flow Rate Sample Start Time	08:08
Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	2.0
Sample # Starting Flow Rate Sample Start Time	08:08

Date: 4/1/10		Work Area Mileposts:	1331.8-	1332,5
Sampled Person's Name:	: Brian AU	n ro		
BNSF Employee ID	7460306			<u> </u>
Job Title	Truck Driver			_
Machine Type/Name	Truck			
) F				
Pump Number	P-5			
Sample #	P-BA-04	2112		
Starting Flow Rate	7.7			
Sample Start Time	08:10			
Dumpro Cimi	V VIEW			
Ending Flow Rate	2.0			
Sample End Time	15:58			
Sample Volume	936			
Sampled Person's Name:				
BNSF Employee ID Job Title				
11				
Machine Type/Name				_
D Mumbar				
Pump Number				
Sample #				
Starting Flow Rate	·			
Sample Start Time				
Ending Flow Rate				
Sample End Time				
Sample End Time Sample Volume				_
Sampled Person's Name:				
BNSF Employee ID				
Job Title				
Machine Type/Name				
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time				
Ending Flow Rate				
Sample End Time				
Sample Volume				
Sampled Person's Name:				
BNSF Employee ID			·	
Job Title				-
Machine Type/Name				
Pump Number				
Sample #		<u>-</u>		-
Starting Flow Rate				
Sample Start Time				
oumpro Start Time				
Ending Flow Rate				
Sample End Time				
Dumpio Line Land				

Date: 4 / / /	0 Work Area Mileposts: 1331,8 - 1332-5
Approx MP of Sample	
GPS Coords	N48,44680 W 1/5.79045
Receptor Present?	Y / X NIf yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	<u> </u>
Sample #	S1332.0W040110
Starting Flow Rate	7.0
Sample Start Time	09:00
Ending Flow Rate	7.0
Sample End Time	14:40
Sample Volume	2380
Approx MP of Sample l	
GPS Coords	N 48.44680 W 115.79045
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	<u>HV-Z</u>
Sample # 2	S 1332.1 E040110
Starting Flow Rate	7.0
Sample Start Time	09:08
Ending Flow Rate	7.0
Sample End Time	14:45
Sample Volume	Z394
Approx MP of Sample I	
GPS Coords	N W
Receptor Present	Y / NIf yes then describe:
Samples Downwind?	Y / NIf no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	-
,	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Date: 1330-1332 Work Area Mileposts: Sampled Person's Name: TONY BNSF Employee ID 5024 Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time 58200 Ending Flow Rate 10 Sample End Time Sample Volume Sampled Person's Name: Androw Smith BNSF Employee ID 790633 Job Title rinder Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: Doug Throop BNSF Employee ID Job Title abor Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Doore Sampled Person's Name: BNSF Employee ID Job Title Trackman Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume

Date: 4 5 10	
Sampled Person's Name	Randy Finley
BNSF Employee ID	1714944
Job Title	Group-5
Machine Type/Name	MA
	0 1 :
Pump Number	<u> 2-5                                   </u>
Sample #	P-RF 040510
Starting Flow Rate	2.0
Sample Start Time	07:58
Ending Flow Rate	2.0
Sample End Time	15:36
Sample Volume	916
Sampled Person's Name	:
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	<u> </u>
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	:
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
I Linding 1 10 II I Late	
Sample End Time	

Date: 4 5 10	Work Area Mileposts: \330 \332
Approx MP of Sample I	ocation 1324,09
GPS Coords	N48.43175 W 115.63010
Receptor Present?	Y / NIf yes then describe:
Samples Downwind?	Y / NIf no explain why:
Pump Number	HV-1
Sample #	5 1324-09W040510
Starting Flow Rate	7.0
Sample Start Time	<u>08:20</u>
Ending Flow Rate	
Sample End Time	14:56
Sample Volume	2112
Approx MP of Sample I	
GPS Coords	N 48.43175 W 115, 63010
Receptor Present	Y / K N If yes then describe:
Samples Downwind?	Y t / N If no explain why:
Pump Number	HV-2
Sample # <b>Z</b>	S 1324-1E040510
Starting Flow Rate	7.0
Sample Start Time	08:24
Ending Flow Rate	7 0
Sample End Time	14759
Sample Volume	2765
Approx MP of Sample I	
GPS Coords	N W Y / N If yes then describe:
Receptor Present	- · · · · · · · · · · · · · · · · · · ·
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate Sample Start Time	
Sample Start 1 lime	
Ending Flow Rate	
Sample End Time	<del></del>
Sample Volume	
Campio i Ciunio	

Notes:

Date: 4 6 10	Work Area Mileposts: 1322 = 06 - 1322-31
Sampled Person's Nam	e: Theyor Beers
BNSF Employee ID	1660829
Job Title	Plugger
Machine Type/Name	Plugger
Pump Number	P-1
Sample #	P-TB-040610
Starting Flow Rate	2,0
Sample Start Time	07:49
Ending Flow Rate	2,0
Sample End Time	3:01
Sample Volume	624
Sampled Person's Name	: Carco Poore
BNSF Employee ID	1782028
Job Title	
	Trackman
Machine Type/Name	
Pump Number	4-2
Sample #	P. CP 040610
Starting Flow Rate	2-0
Sample Start Time	97:52
Ending Flow Rate	2-0
Sample End Time	14:12
Sample Volume	760
Sampled Person's Name	Sean Houter
Sampled Person's Name	Span Hunter
BNSF Employee ID	1767029
BNSF Employee ID Job Title	Machine Operator
BNSF Employee ID	1767029
BNSF Employee ID Job Title	Machine Operator
BNSF Employee ID Job Title Machine Type/Name	Machine operator  Spiker P-3
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	Machine Operator
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	1767029 Machine Operator Spiker P-3 P-5H-040610 2-0
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	Muchine Operator  Spiker  P-3  P-SH-040610
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	1767029 Machine Operator Spiker P-3 P-5H-040610 2-0
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	1767029 Machine Operator Spiker P-3 P-5H-040610 2-0
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate	1767029 Machine Operator Spiker P-3 P-5H-040610 2-0
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2-0  07:57  20  14:16  758
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2.0  07:57  20  14:16  758
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2.0  07:57  20  14:16  758  Randy Finley  1714914
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2.0  07:57  20  14:16  758
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2.0  07:57  20  14:16  758  Randy Finley  1714914
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2-0  07:57  20  14:16  758  Randy Finley  1714914  Srap 5  MA  P-4
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number	1767029 Machine Operator  Spiker  P-3  P-5H-040610  2-0  07:57  20  14:16  758  Randy Finley  1714914  Srap 5  MA  P-4
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	1767029 Muchine Operator  Spiker  P-3  P-5H-040610  2-0  07:57  20  14:16  758  **Kandy Finley 1714914  Graup 5  NA  P-4  P-RF 040610
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate	1767029 Machine Operator  SPIKET  P-3  P-5H-040610  2-0  07:57  20  14:16  758  Randy Finley  1714914  Group 5  NA  P-4  P-RF 040610  2-0
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	1767029 Muchine Operator  Spiker  P-3  P-5H-040610  2-0  07:57  20  14:16  758  **Kandy Finley 1714914  Graup 5  NA  P-4  P-RF 040610
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample Start Time	1767029 Machine Operator  Spiker  P-3  P-SH-040610  2.0  07:57  20  17:16  758  Rand-r Finley  1714914  Group 5  NA  P-4  P-RF 040610  2-0  07:58
BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time	1767029 Machine Operator  SPIKET  P-3  P-5H-040610  2-0  07:57  20  14:16  758  Randy Finley  1714914  Group 5  NA  P-4  P-RF 040610  2-0

Work Area Mileposts: \332-Date: Tucker Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number RT-040610 Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume

Date:	Work Area Mileposts: 1322 € 66 - 1322.3		
Approx MP of Sample	Location 1332.06		
GPS Coords	N 48, 40931 W115,59500		
Receptor Present?	Y /X NIf yes then describe:		
Samples Downwind?	Y / NIf no explain why:		
Pump Number	HV-1		
Sample #	5-1322.06 W040610		
Starting Flow Rate	7.0		
Sample Start Time	08:39		
Ending Flow Rate	7.0		
Sample End Time	13:57		
Sample Volume	2226		
Approx MP of Sample Location 332.07			
GPS Coords	N49,40031 W 115.5, 9500		
Receptor Present	Y /X NIf yes then describe:		
Samples Downwind?	YX / NIf no explain why:		
Pump Number	HU-2		
Sample # Z	5-1322,07 E040610		
Starting Flow Rate	7.0		
Sample Start Time	08:43		
Ending Flow Rate	7-0		
Sample End Time	13:59		
Sample Volume	22/2		
Approx MP of Sample Location			
GPS Coords	N W		
Receptor Present	Y / N If yes then describe:		
Samples Downwind?	Y / N If no explain why:		
Pump Number			
Sample #			
Starting Flow Rate			
Sample Start Time			
Ending Flow Rate	·		
Sample End Time			
Sample Volume			

Notes:

Date: 4/7/10 Work Area Mileposts: 1311.63 - 1310.8 Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # C040710 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Itu ntev Sampled Person's Name: BNSF Employee ID Job Title Operator Machine Type/Name DIGER -2 Pump Number 54040710 Sample # Starting Flow Rate :56 Sample Start Time Ending Flow Rate 5:03 Sample End Time Sample Volume Sampled Person's Name: // (class el O Mary BNSF Employee ID Job Title Machine Type/Name Pump Number -MO-040710 Sample # Starting Flow Rate Sample Start Time 2.0 Ending Flow Rate 15:09 Sample End Time Sample Volume 864 Hofpar Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # EH-040710 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume

Date: 417110 Work Area Mileposts:

Sampled Person's Name	: JONN (tolobs
	137010
BNSF Employee ID	1775048
Job Title	Section Main
Machine Type/Name	Plugger
Pump Number	P-5
Sample #	P JH 040710
Starting Flow Rate	2.0
Sample Start Time	07:59
Sample Start Time	
Ending Flow Rate	2.0
Sample End Time	<u> </u>
Sample Volume	864
Sampled Person's Name	
	<u> </u>
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sample volume	
Sampled Person's Name:	<u> </u>
BNSF Employee ID	
Job Title	
Machine Type/Name	
1	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
INterting Flow Rate	
Starting Flow Rate	
Starting Flow Rate Sample Start Time	
Sample Start Time Ending Flow Rate	
Sample Start Time	

Date: 4/7/10 1311.63-1310.8 Work Area Mileposts: Approx MP of Sample Location 1310.6 GPS Coords N48.36908 W / N If yes then describe: Receptor Present? Samples Downwind? N If no explain why: Pump Number Sample # 🗱 🕽 10.6 W040710 Starting Flow Rate Sample Start Time Ending Flow Rate 4:10 Sample End Time Sample Volume 1210. Approx MP of Sample Location 369*0*8 GPS Coords N 48. Receptor Present XN If yes then describe: Samples Downwind? N If no explain why: Pump Number Sample # 2 E046710 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Approx MP of Sample Location GPS Coords W Y N If yes then describe: Receptor Present Samples Downwind? Y N If no explain why: Pump Number Sample # Starting Flow Rate Sample Start Time 7.0 Ending Flow Rate Sample End Time

Notes:

Sample Volume

Date: 4 8 10 1308,92-1308,49 Work Area Mileposts: Sampled Person's Name: ab 6 5 BNSF Employee ID Job Title Machine Type/Name Pump Number H-040810 Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title ection Man Machine Type/Name Pump Number 0180404 Sample # Starting Flow Rate 04 Sample Start Time Ending Flow Rate Sample End Time Sample Volume Poore Sampled Person's Name: Carson BNSF Employee ID 782028 Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate 206 Sample Start Time Ending Flow Rate Sample End Time Sample Volume Tucker Sampled Person's Name: BNSF Employee ID Job Title Jelding Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume

Date: 4 8 1	Work Area Mileposts: \308.92-1308.49
Sampled Person's Name	
BNSF Employee ID	1791078
Job Title	Group 5
Machine Type/Name	Blower
	A =
Pump Number	P-5
Sample #	P-BG-040810
Starting Flow Rate	2.0
Sample Start Time	08210
Ending Flow Pote	5.A
Ending Flow Rate Sample End Time	200
Sample Volume	14:16
	154
Sampled Person's Name	:
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	· · · · · · · · · · · · · · · · · · ·
Sumple Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
	•
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Ending Flow Rate Sample End Time Sample Volume	

Work Area Mileposts: 1308.92 - 1308.49 Date: Approx MP of Sample Location GPS Coords W 115.37921 N 48036009 / N If yes then describe: Receptor Present? Samples Downwind? Y 🗶 / NIf no explain why: Pump Number Sample # 08.70 W 840810 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Approx MP of Sample Location 1368.70 W GPS Coords Receptor Present N If yes then describe: Y**X** / Samples Downwind? N If no explain why: Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Approx MP of Sample Location GPS Coords W N Y Receptor Present N If yes then describe: Samples Downwind? Y / N If no explain why: Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate

Notes:

Sample End Time Sample Volume

Concrete TIES Sortin Rail Right + voick

2010 Work Area Mileposts: 13-36, 7-13-39, 4	
: Niles Singer	31
733,4600	
Assist Loveman	
Walking	_ /
MV-3	
% P-NS-032910	\/
2802	
1.2	
844	
EUS Lemanian	
1751890	
Section man	
Cutting Rad	
MV-4	/
P-RL-032910	\/
2	
7804	
1.8	
16/7	==
· Must Deal Tour	
Wale & Friting Rai	
A O 14 22	/
P-Cb-032910	
	<b></b>  \/
<u>Lyck</u>	- 1
1.2	
1515 Sample wet pump Stepped working	
849	
e: Jeyme Binal	
17/19712	
CHO YAZZEY	
Charle	
MV-1	1
	- V
0908	
O Company of the Comp	
1509	
	Notes Singer  7324600  Assit Foreman  Walter  MV-3  P-NS-032910  2802  1.2  1.501e  844  Evenuman  Cutting Rad  MV-d  P-RL-032910  D804  1.8  1507  843  Evenuman  Cutting Rad  MV-d  P-RL-032910  D804  1.8  1507  843  Evenuman  MV-d  P-C6-032910  Evenuman  Evenuman

Date: IV JONED 20	(1, 2010 ant work Area Mileposts: 13 38, 1-13.39, 9
Sampled Person's Name	: Branch Weisenburger
BNSF Employee ID	1791193
Job Title	
Machine Type/Name	Track Walking Clippers
Pump Number	P-5
Sample #	& P-BW-0329-1A
Starting Flow Rate	P-5 @ P-BW-0329-10
Sample Start Time	0810
	No. of the control of
Ending Flow Rate	1,4
Sample End Time	1508
Sample Volume	738
Sampled Person's Name	
BNSF Employee ID	
Job Title	
A CONTRACTOR OF THE CONTRACTOR	
Machine Type/Name	
Pump Number	
Sample #	No.
Starting Flow Rate	<del></del>
Sample Start Time	
Sample Start Time	<del>)</del>
Ending Flow Rate	
Sample End Time	
IlSample Volume	
Sample Volume	
Sampled Person's Name	»:
Sampled Person's Name BNSF Employee ID	
Sampled Person's Name BNSF Employee ID Job Title	N.
Sampled Person's Name BNSF Employee ID	»:
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	x
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number	X
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name BNSF Employee ID	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample #	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample # Starting Flow Rate Sample Start Time	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample Flow Rate Sample Start Time	
Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample Start Time  Ending Flow Rate Sample End Time Sample Volume  Sampled Person's Name BNSF Employee ID Job Title Machine Type/Name  Pump Number Sample # Starting Flow Rate Sample # Starting Flow Rate Sample Start Time	

Date: / Varch &	19, 200 Work Area Mileposts: 1338.7 - 1339.4
Approx MP of Sample	Location 1339
GPS Coords	N 48° 23' 36" W 15° 33'1"
Receptor Present?	Y / NIf yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	_8360
Sample #	\$ 5-1338W-032910
Starting Flow Rate	7
Sample Start Time	0835
Ending Flow Rate	\$ 5.5
Sample End Time	1441
Sample Volume	3,126
Approx MP of Sample	
GPS Coords	N 48° 23' 36" W 15° 33' 1"
Receptor Present	Y / NIf yes then describe:
Samples Downwind?	NIf no explain why:
Pump Number	8369
Sample #	83 S-1338E-032910
Starting Flow Rate	7
Sample Start Time	08.36
Ending Flow Rate	<b>\$</b> 5.5
Sample End Time	1442
Sample Volume	3,127
Approx MP of Sample	Location
GPS Coords	N W
Receptor Present	Y / NIf yes then describe:
Samples Downwind?	Y / NIf no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

# Personal Air Sample Data

BNSF Kootenai River Subdivision **OSHA Sampling** 

Work Area Mileposts: 1337, 960-1338,110 1335,120-1335,300 Date: March 30,2010 Sampled Person's Name: 175908 BNSF Employee ID Job Title Truele Driver Machine Type/Name SUGTE Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: Niles Singer BNSF Employee ID fore man Job Title Machine Type/Name Walking Track Pump Number -03301C Sample # Starting Flow Rate Sample Start Time Ending Flow Rate 153 Sample End Time 10704 Sample Volume Sampled Person's Name: Brant Weisenburge BNSF Employee ID 179/193 Job Title Driver Machine Type/Name Pump Number -033010 Sample # Starting Flow Rate 000 Sample Start Time **Ending Flow Rate** Sample End Time 1036 Sample Volume Sampled Person's Name: Jermel B60.00 BNSF Employee ID Job Title ribbel Machine Type/Name Markine trac Pump Number Sample # 18-033010 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume

1335120-1335-300 Work Area Mileposts: 1337.960 -1338.110 Date: March 30, 2010 Sampled Person's Name: Russ BNSF Employee ID 75 1890 Job Title Section Man Machine Type/Name General tooks Pump Number RL-033010 Sample # Starting Flow Rate Sample Start Time 0 Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume

Date: March 30	,2010	Work Area	Mileposts: 1337.960	7-1338.110	1335,120-1335,300
Approx MP of Sample					
GPS Coords	N 48 0 23 3		W 115° 33' 1	Ir	
Receptor Present?	Y / NIf ye	s then describe:			
Samples Downwind?	(Y) / NIf no	explain why:			
Pump Number					
Sample #	S-1338W	-033010			
Starting Flow Rate	7				
Sample Start Time	0840				
Ending Flow Rate	@ 10·0				
Sample End Time	1340				
Sample Volume	2100				
Approx MP of Sample					
GPS Coords	N 48° 23′ 3		W 115° 33' 1'		
Receptor Present		s then describe:			
Samples Downwind?	(Y) / NIf no	explain why:			
Pump Number	L. H. J. L.				
Sample #	S-1338E-	033010			
Starting Flow Rate	7				
Sample Start Time	0840				
Ending Flow Rate	\$ 6.0		a.c		
Sample End Time	1340				
Sample Volume	2100				
Approx MP of Sample					
GPS Coords	N		W		
Receptor Present		s then describe:			
Samples Downwind?	Y / NIf no	explain why:			
Pump Number	9				
Sample #					
Starting Flow Rate					
Sample Start Time	7				
Ending Flow Rate					
Sample End Time					
Sample Volume					

Notes:

	2010 Work Area Mileposts: 1331,80-1332,50	
Sampled Person's Name	Troy webster	
BNSF Employee ID	177/0350	
Job Title	Group & Machine	
Machine Type/Name	Pregauger	
The state of the s	111801181	
Pump Number	MV-2	
Sample #	P-TW-03210	
	P- 11V-03310	-
Starting Flow Rate	0000	-
Sample Start Time	0802	`
Ending Flow Rate	1.10	
Sample End Time	1638	_
	- 01	$\dashv$
Sample Volume	996	4
Sampled Person's Nam	e: Lynnard Spiry	
BNSF Employee ID	1420079	
Job Title A	of Foreman.	- 1
Machine Type/Name	Walking Track	
	W. Carlotte and Ca	
Pump Number	MV-1	X
Sample #	P-LS-033110	.)
Starting Flow Rate		
Sample Start Time	0759	
o volta co restante a como	<u> </u>	
Ending Flow Rate	1.3	
Sample End Time	1025	
Sample Volume	986	
Compled Person's Nom	e: Thomas Swift	
BNSF Employee ID	1782010	-
Job Title		
and the second s	Groups	-
Machine Type/Name	Rail Heater / Bomb	-
Dumm Mumbon	mv4.	
Pump Number		
Sample #	P-TS-033110	7
Starting Flow Rate	3	1
Sample Start Time	0806	-
E. B. Bless Date	1.3	
Ending Flow Rate		-
Sample End Time	1657	s.
Sample Volume	1611	
Sampled Person's Nam	e: Jermel Brown	
BNSF Employee ID	174971a	
Job Title	Cripber Operator	
Machine Type/Name	Cripper / Walkingtrack	
Pump Number	mV-3	
Sample #	P.JB 033110	
Starting Flow Rate	2.6	
Sample Start Time	0800 0804	
Ending Flow Rate	1.3	
Sample End Time	1644	
Sample Volume	1000	
Campie i Olume	LINIVIX	

Date: March 21	12010	Work Area Mileposts:	1331.80-133	150
Sampled Person's Name:	11()			
BNSF Employee ID	1720192			
Job Title	Lahoses			
Machine Type/Name	Various			
Pump Number	LV-3			
Sample #	P-LK-033110			
Starting Flow Rate	2			
Sample Start Time	0810			
Ending Flow Rate	1.5			
Sample End Time	11015			
Sample Volume	965			
Sampled Person's Name				
BNSF Employee ID				
Job Title				
Machine Type/Name				
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time	<u></u>			
Ending Flow Rate				
Sample End Time				
Sample Volume				
Sampled Person's Name				
BNSF Employee ID	-			
Job Title				
Machine Type/Name				
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time				
Ending Flow Rate				
Sample End Time	-			
Sample Volume				
Sampled Person's Name				
BNSF Employee ID	-			
Job Title				
Machine Type/Name				
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time				
Ending Flow Rate				
Sample End Time				
Sample Volume				

Date: March 3	1,2010 wa	ork Area Mileposts: 13.31.85-13.30.50
Approx MP of Sample	Location 1332	
GPS Coords	N	W
Receptor Present?	Y / NIf yes then desc	ribe:
Samples Downwind?	(Y) / NIf no explain wl	hy:
Pump Number	0869	
Sample #	S-1332W-03311	0
Starting Flow Rate	7.5	
Sample Start Time	1000	
Ending Flow Rate	6.0	
Sample End Time	1530	
Sample Volume	2280	
Approx MP of Sample		
GPS Coords	N	W
Receptor Present	Y / NIf yes then desc	
Samples Downwind?	(Y) / NIf no explain wh	hy:
Pump Number	0835	
Sample #	S-1332F-0331	0
Starting Flow Rate	7.5	
Sample Start Time	1000	
Ending Flow Rate	6.0	
Sample End Time	1530	
Sample Volume	2280	
Approx MP of Sample	Location	
GPS Coords	N	W
Receptor Present	Y / NIf yes then desc	
Samples Downwind?	Y / NIf no explain w	hy:
Pump Number		
Sample #	1	
Starting Flow Rate	1	
Sample Start Time		
Ending Flow Rate		
Sample End Time		
Sample Volume		

\* Notes: Generator stopped working at undoternized to mark Limited access area & I was not able to check generator and pumps as I normally would. Track work of I mised access presented to s. In the future I will assure I set up stationary pumps in a visit sentative area with access

# Personal Air Sample Data BNSF Kootenai River Subdivision

**OSHA Sampling** 

Work Area Mileposts 329.81 - 1336.041 Date: Sampled Person's Name: BNSF Employee ID Driver Job Title Machine Type/Name Pump Number Sample # Y040110 Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: dermel Brown BNSF Employee ID Job Title Machine Type/Name mv-2 Pump Number Sample # 278-040110 Starting Flow Rate Sample Start Time 1.0 Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: 1/1/ BNSF Employee ID Job Title 1 CHEVY YOU Machine Type/Name Pump Number NS-040110 Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume 809 Sampled Person's Name: Kasel Kerwin 1720192 BNSF Employee ID Job Title aborer Machine Type/Name 70015 MV-4 Pump Number Sample # KK-040110 Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time

Sample Volume

Date: April 1,2	0/0 Work Area Mileposts: 1329,81 - 1336.09
Sampled Person's Name:	
BNSF Employee ID	1751908
Job Title	Durch / Rail cuttera
Machine Type/Name	1/201 Cutter 0
Pump Number	LV-3
Sample #	P-95-040110
Starting Flow Rate	a
Sample Start Time	0927
Ending Flow Rate	1.4
Sample End Time	IUSC
Sample Volume	(03)
Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
F. C. Fl. D.	
Ending Flow Rate	
Sample End Time Sample Volume	
Sampled Person's Name: BNSF Employee ID	
Job Title Machine Type/Name	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Date: April (	2010	Work Area	Mileposts: 1329.81-1330.04
Approx MP of Sample	Location 1329.	7	
GPS Coords	N		W
Receptor Present?	Y / (NIf yes t	then describe:	
Samples Downwind?	NIf no e	xplain why:	
Pump Number	8369		
Sample #	S-1329,7W.	011010	
Starting Flow Rate	7.5		
Sample Start Time	0930		
Ending Flow Rate	6.0		
Sample End Time	1405		
Sample Volume	2275		
Approx MP of Sample		7	W
GPS Coords	N	A 1 W	W
Receptor Present		then describe:	
Samples Downwind?	√ NIf no e	xplain why:	
Pump Number	7 10000 = =	art a silver	
Sample #	5-1329.7 E-	040110	
Starting Flow Rate	0930		
Sample Start Time	0930		
Ending Flow Boto	utor		
Ending Flow Rate Sample End Time	1905		
Sample Volume	2225		
Approx MP of Sample			
GPS Coords	N		W
Receptor Present		then describe:	- 11
Samples Downwind?		explain why:	
Pump Number	, 1,11 HO C	Apidii Wily.	
Sample #			
Starting Flow Rate	-		
Sample Start Time	-		
Dampie Start Time	-		
Ending Flow Rate			
Sample End Time			
Sample Volume			

Notes:

1	OSTA Sampling
Date: April 5,0	Work Area Mileposts:   3 0,80-1311.60
Sampled Person's Name	
BNSF Employee ID	7334600
Job Title	Asst. Foreman
Machine Type/Name	Walking Track
Pump Number	MV-1
Sample #	P-NS-040510
Starting Flow Rate	2.0
Sample Start Time	0881
Ending Flow Rate	1.8
Sample End Time	1700
Sample Volume	969
Sampled Person's Name	: Brant Weisenburger
BNSF Employee ID	179193
Job Title	Tabarer
Machine Type/Name	Clopers
D. N. I	MV2
Pump Number	P-BN-040510
Sample #	P-BN-040510
Starting Flow Rate	0.0
Sample Start Time	0193
Ending Flow Rate	1.9
Sample End Time	1706
Sample Volume	973
Sampled Person's Name	e: Tray Wobster
BNSF Employee ID	1776350
Job Title	Group & Machine Operator
Machine Type/Name	Preganger
Pump Number	MK 3
Sample #	P-TW-040510
Starting Flow Rate	3.0
Sample Start Time	0855
E 12 El D	1 9
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	e: Jermin Brown
BNSF Employee ID	1799712
BNSF Employee ID Job Title	1799712 Crib (azzer
BNSF Employee ID	1799712
BNSF Employee ID Job Title Machine Type/Name	1799712 Crib (azzer
BNSF Employee ID Job Title Machine Type/Name Pump Number	1799712 Crib (azzer Cribber MV-4
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample #	1799712 Crib (azzer
BNSF Employee ID Job Title Machine Type/Name Pump Number	1799712 Crib (azzer Cribber MV-4
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time	1799712 Crib (azzer Cribiaer MV-4 P-JB-040510 2.0 0857
BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate	1799712 Crib (azzer Cribiale MV-4 P-JB-040510 2.0

Date: ADI 5,20	Work Area Mileposts: [3] 0.80-1311-60
Sampled Person's Name:	
BNSF Employee ID	1782010
Job Title	Grove 5 Machine Operator
Machine Type/Name	Pail Heater/ Bomio
	. 2
Pump Number	しいつ
Sample #	P-TS-040510
Starting Flow Rate	20
Sample Start Time	0858
Ending Flow Rate	1.9
Sample End Time	1905
Sample Volume	968
Sampled Person's Name	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	
Sampled Person's Name	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	

Date: April 5,2	010	Work Area	Mileposts:	1310.80-1311-60
Approx MP of Sample	Location  3			
GPS Coords	N		W	
Receptor Present?	Y / Of yes th	nen describe:		
Samples Downwind?	Y) / NIf no ex	plain why:		
Pump Number	8360	11-2-1		
Sample #	5-1311W-04	0510		
Starting Flow Rate	75			
Sample Start Time	iono			
Ending Flow Rate	7.5			
Sample End Time	1500			
Sample Volume	2250			
Approx MP of Sample				
GPS Coords	N		W	
Receptor Present		hen describe:		
Samples Downwind?	(Y) / N If no ex	xplain why:		
Pump Number	8369			
Sample #	S-1311E-0	40510		
Starting Flow Rate	7.5			
Sample Start Time	1000			
Ending Flow Rate	7.0			
Sample End Time	1500			
Sample Volume	2250			
Approx MP of Sample	Location			
GPS Coords	N		W	
Receptor Present		hen describe:		
Samples Downwind?	Y / NIf no ex	xplain why:		
Pump Number				
Sample #				
Starting Flow Rate				
Sample Start Time	-			
Ending Flow Rate				
Sample End Time				
Sample Volume				

Notes:

# Personal Air Sample Data BNSF Kootenai River Subdivision

**OSHA Sampling** 

Date: \ Work Area Mileposts: Sampled Person's Name: Grant BNSF Employee ID 1791193 Job Title 1060161 Machine Type/Name Clippels Pump Number Sample # BW-040610 Starting Flow Rate 0854 Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Jermel Brown Sampled Person's Name: BNSF Employee ID Job Title 1077-86 Machine Type/Name Pump Number Sample # 040611 Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Asst. Forernan Machine Type/Name Walking Pump Number -NS-040610 Sample # Starting Flow Rate 0859 Sample Start Time Ending Flow Rate Sample End Time 872 Sample Volume Sampled Person's Name: Chis Madroid BNSF Employee ID utling Job Title Machine Type/Name Pump Number G-040610 Sample # Starting Flow Rate Sample Start Time **Ending Flow Rate** 620 Sample End Time Sample Volume 860

Date: Work Area Mileposts: Sampled Person's Name: BNSF Employee ID 190401 Job Title Group 5 Mach Machine Type/Name Mach Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time **Ending Flow Rate** Sample End Time Sample Volume Sampled Person's Name: BNSF Employee ID Job Title Machine Type/Name Pump Number Sample # Starting Flow Rate Sample Start Time Ending Flow Rate Sample End Time

Sample Volume

7

Date: April 6, 2		Work Area M	lileposts:	1309.20-13	09.54	130
Approx MP of Sample						
GPS Coords	N		V			
Receptor Present?	Y / Mf yes	then describe:				
Samples Downwind?		explain why:				
Pump Number	8361	A				
Sample #	S-1309W	-040610				
Starting Flow Rate	7.5					
Sample Start Time	0930		_			
Ending Flow Rate	7.6					
Sample End Time	1336					
Sample Volume	1806					
Approx MP of Sample						
GPS Coords	N		W			
Receptor Present		then describe:				
Samples Downwind?		explain why:				
Pump Number	8369 S-1309E-0	1.				
Sample #	37309E-6	NACIOICI				
Starting Flow Rate Sample Start Time	0920					
Sample Start Time		-				
Ending Flow Rate	619					
Sample End Time	1336					
Sample Volume	6.9 1336 1810					
Approx MP of Sample	Location					
GPS Coords	N		W			
Receptor Present		then describe:				
Samples Downwind?	Y / NIf no	explain why:				
Pump Number	4					
Sample #						
Starting Flow Rate						
Sample Start Time						
Ending Flow Rate						
Sample End Time						
Sample Volume						

Notes:





# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000046

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				<b>Bill to:</b>					
Street: 11 E. Superior	Street, Suite #260		Third Party Billing re	equires written authorizati	on from third party				
City: Duluth	State/P	rovince: MN	Zip/Postal Code: 5580	2 Cour	ntry: USA				
Report To (Name): So	ott Carney		Fax #: (218) 625-2337						
Telephone #: (218) 62	25-2332 x 303		Email Address: carney@emr-inc.com						
Project Name/Number	·: 9329-001								
Please Provide Resul		Purchase Order	: U.S	S. State Samples Take	en: Montana				
	Turn	around Time (TAT)	Options* - Please Ched	:k					
	lour 🛛 🖂 24 Hour	☐ 48 Hour	☐ 72 Hour ☐ 9	6 Hour 1 Week					
*For TEM Air 3 hours/6 hou	urs, please call ahead to sch	edule.*There is a premiur	n charge for 3 Hour TEM AHE	RA or EPA Level II TAT.	You will be asked to sign				
PCM - Air	m for this service. Analysis		with EMSL's Terms and Con		tical Price Guide.				
			5hr TAT (AHERA only)	TEM- Dust	D ====				
□ NIOSH 7400		AHERA 40 CFF	R, Part 763	Microvac - ASTM					
w/ OSHA 8hr. TWA		☐ NIOSH 7402		☐ Wipe - ASTM D64					
PLM - Bulk (reporting		EPA Level II		☐ Carpet Sonication					
☐ PLM EPA 600/R-93/	` '	☐ ISO 10312		Soil/Rock/Vermiculi					
☐ PLM EPA NOB (<1%	6)	TEM - Bulk		☐ PLM CARB 435 -					
Point Count				☐ PLM CARB 435 -	` ''				
☐ 400 (<0.25%) ☐ 100	, ,	☐ NYS NOB 198.4	(non-friable-NY)	☐ TEM CARB 435 -	` ''				
Point Count w/Gravimet		☐ Chatfield SOP		☐ TEM CARB 435 -	C (0.01% sensitivity)				
☐ 400 (<0.25%) ☐ 100	00 (<0.1%)	☐ TEM Mass Anal	ysis-EPA 600 <b>s</b> ec. 2.5	☐ EPA Protocol (Se	mi-Quantitative)				
■ NYS 198.1 (friable i	n NY)	TEM - Water: EPA	100.2	☐ EPA Protocol (Qu	antitative)				
■ NYS 198.6 NOB (no	on-friable-NY)	Fibers >10µm	Waste Drinking Other:						
☐ NIOSH 9002 (<1%)		All Fiber Sizes	Waste Drinking						
<del></del>		ositive Stop - Cle	arly Identify Homoge	nous Group					
Samplers Name: Amai	nda Thornton-DeWitt		Samplers Signature:						
Samula #				Volume/Area (Air)	Date/Time				
Sample #	*****	Sample Description		HA # (Bulk)	Sampled				
P-NS-032910	Niles Singer-Asst. For	eman-MP 1338.7-13	39.4 Rpm	844	03-29-10/ 0802-1506				
P-RL-032910	Russ Lemunyan-Section	mon MD 1229 7 1220		942	02 20 10/0004 1505				
1-4KE-032910	Russ Lemunyan-Section	man- Mr 1336.7-1339	.4	843	03-29-10/ 0804-1507				
P-CB-032910 V	Chris Bradford-Truck D	river/Rail Cutter- Ml	P 1338.7-1339.4	849	03-29-10/ 0806-1515				
P-JB-032910	Jermel Brown-Cribber (	Operator- MP 1338.7-	1339.4	841	03-29-10/ 0808-1509				
	Brant Weisenburger- Cl	ipper Operator/Walk	ing Track-MP 1338.7-						
P-BW-032910	1339.4			838	03-29-10/0810-1508				
S-1338W-032910 🗸	Stationary Pump-Wes	t end		3126	03-29-10/ 0835- 1441				
S-1338E-032910	Stationary Pum-East E	End		3126	03-29-10/0836-1442				
CB-Open-032910	CB-Open-032910 Control Blank-Opened 0 03-29-10/ 1450								
Relinquished (Client):	Amanda Thornton-I	DeWitt Date:	4-7-10	Time	:1027				
Received (Lab):	R. K. Mahoner	Date:	4/7/10	Time	: 1027				
Comments/Special Ins	emments/Special Instructions:								



### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Fax:

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-001

Samples collected 03/29/10

Customer ID:

EMRI78

Customer PO:

Received:

04/07/10 10:27 AM

EMSL Order:

271000046

EMSL Proj:

Analysis Date:

4/19/2010

Sampling Date

3/29/2010

# Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structu ≥ 0.5μ < 5	ires ≥5µ	Analytical Sensitivity (S/cc)	Asbo Concen (S/mm²)	
P-NS-032910 271000046-0001		844.00	0.1040		None Dete	ected		0.0044	<9.60	<0.0044
P-RL-032910 271000046-0002		843.00			Overloade	ed				
P-CB-032910 271000046-0003		849.00			Filter Dam	aged			-	-
P-JB-032910 271000046-0004		841.00	0.1040		None Dete	ected		0.0044	<9.60	<0.0044
P-BW-032910 271000046-0005		838.00	0.1040		None Dete	ected		0.0044	<9.60	<0.0044
S-1338W-032910 271000046-0006		3126.00	0.0520		None Dete	ected		0.0024	<19.00	<0.0024
S-1338E-032910 271000046-0007		3126.00	0.0520		None Dete	ected		0.0024	<19.00	<0.0024
CB-Open-032910 271000046-0008			0.1300		None Dete	ected			<7.70	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laworatory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Fay.

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID: Customer PO: EMRI78

11 East Superior Street

Received:

04/07/10 10:27 AM

Suite 260

EMSL Order:

-----

Suite 200

EMSL OF

271000046

Duluth, MN 55802

(218) 625-2337

Phone: (218) 625-2332

EMSL Proj:

Fax: Project:

Project: 9329-001

Samples collected 03/29/10

Sampling Date

3/29/2010

# Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structu ≥ 0.5μ < 5	ıres ≥5µ	Analytical Sensitivity (S/cc)	Total A Concen (S/mm²)	
P-RL-032910 271000046-0002		843.00	0.1300		None Det	ected		0.0330	<72.00	<0.0330

Analyst(s)

R. K. Mahoney, Laboratory Manager or other approved signatory

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT

# INTERNAL CHAIN OF CUSTODY

4/7/2010 2:41:16 PM

Order ID: 271000044

Phone: (218) 625-2332

Attn:

Fax:

Project:

Scott Carney

EMR, inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-0001

Samples collected 03/30/10

Customer ID:

Customer PO:

Received:

04/07/10 10:35 AM

EMRI78

EMSL Order:

271000044

EMSL Proj ID: **Cust COC ID** 

Test: TEM AHERA	<u>Matrix</u> Air	<u>TAT:</u> 2	24 Hour	<b>Qty:</b> 8
Acct Sts: BillingFrequency:	Sisprsn: rdemalo	Logged: Sample Condition:	rpescador  Acceptable  Unacceptable  Comments	<u>Date:</u> 4/7/10
☐ Exempt from prep charg ☐ Exempt from lab openin ☐ Exempt from layer/aliqu	g fee	<u>Prepped:</u> <u>Analyzed:</u> <u>Data Entry:</u>	KAB	Date: 4 (2 (8 Date: Date:
Special Instructions		<u>Screened:</u> <u>Mailed:</u>		Date:

#### **Internal Comment**

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000044	271000044-0001	P-CB-033010 6L	15ml 2nd dilution	4/8/2010 10:35:00 AM
271000044	271000044-0002	P-NS-033010		4/8/2010 10:35:00 AM
271000044	271000044-0003	P-BW-033010		4/8/2010 10:35:00 AM
271000044	271000044-0004	P-JB-033010		4/8/2010 10:35:00 AM
271000044	271000044-0005	P-RL-033010 DL	15ml 2nd dilution	4/8/2010 10:35:00 AM
271000044	271000044-0006	S-1338W-033010		4/8/2010 10:35:00 AM
271000044	271000044-0007	S-1338E-033010 (RS)		4/8/2010 10:35:00 AM
271000044	271000044-0008	CB-Open-033010		4/8/2010 10:35:00 AM

2710-EMR-13(S-U)/2710-EMR-ARC-14(L,M) 2710-EMR-18 (A) LBS





# INTERNAL CHAIN OF CUSTODY

4/16/2010 8:40:34 AM

Order ID: 271000044

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-0001 Samples collected 03/30/10

Phone: (218) 625-2332

EMSL Order:

Received:

Customer ID:

Customer PO:

EMSL Proj ID:

**Cust COC ID** 

271000044

04/07/10 10:35 AM

EMRI78

Test: TEM AHERA (Indirect) Matrix Air	<u>TAT:</u> 24 Hour <u>Qty:</u> 2	
Acct Sts: SIsprsn: rdemalo BillingFrequency:	Logged: rpescador Date: 4/7/2010 Sample	
<ul><li>□ Exempt from prep charge</li><li>□ Exempt from lab opening fee</li><li>□ Exempt from layer/aliquot charges</li></ul>	Prepped: Date: 4/12/10 Analyzed: Date: Dat	
Special Instructions	Screened: Date:	

#### **Internal Comment**

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000044	271000044-0001	P-CB-033010		4/8/2010 10:35:00 AM
271000044	271000044-0005	P-RL-033010		4/8/2010 10:35:00 AM



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000044

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments**						
Street: 11 E. Superior Stre	et, Suite #260		Third Party	Billina n	equires written authorizat	ion from third party				
City: Duluth	State/P	Province: MN	Zip/Postal Code			ntry: USA				
Report To (Name): Scott (	Carney		Fax #: (218) 62							
Telephone #: (218) 625-23	332 x 303		Email Address: carney@emr-inc.com							
	329-001			<u> </u>	0)@0IIII III0.00III					
Please Provide Results:	🔲 Fax 🛛 Emai				S. State Samples Tak	en: Montana				
	Turn	around Time (TAT)								
*For TEM Air 3 hours/6 hours, pl	24 Hour	48 Hour	72 Hour		96 Hour 1 Wee	k 2 Week				
an authorization form for	this service. Analysis	completed in accordance	with EMSL's Terms	and Cor	ERA OF EPA Level II TAT. Iditions located in the Anal	You will be asked to sign ytical Price Guide.				
PCM - Air		<u>TEM – Air</u> ☐ 4-4.	5hr TAT (AHERA or	nly)	TEM- Dust					
☐ NIOSH 7400		AHERA 40 CFF	R, Part 763		☐ Microvac - ASTM	D 5755				
☐ w/ OSHA 8hr. TWA	☐ NIOSH 7402			☐ Wipe - ASTM D6-	480					
PLM - Bulk (reporting limit	)	☐ EPA Level II			☐ Carpet Sonication	n (EPA 600/J-93/167)				
☐ PLM EPA 600/R-93/116 (	(<1%)	☐ ISO 10312			Soil/Rock/Vermicul	<u>ite</u>				
☐ PLM EPA NOB (<1%)		TEM - Bulk				A (0.25% sensitivity)				
Point Count		☐ TEM EPA NOB			☐ PLM CARB 435 -					
☐ 400 (<0.25%) ☐ 1000 (<	0.1%)	☐ NYS NOB 198.4	(non-friable-NY)		☐ TEM CARB 435 -					
Point Count w/Gravimetric	0.404	☐ Chatfield SOP			·	C (0.01% sensitivity)				
☐ 400 (<0.25%) ☐ 1000 (<	•	☐ TEM Mass Anal		. 2.5	☐ EPA Protocol (Se					
NYS 198.1 (friable in NY	•	TEM - Water: EPA								
NYS 198.6 NOB (non-fria	able-NY)	Fibers >10µm		_	Other:					
☐ NIOSH 9002 (<1%)		All Fiber Sizes		_						
	☐ Check For Pe	ositive Stop – Cle	arly Identify Ho	moge	nous Group					
Samplers Name: Amanda	Thornton-DeWitt		Samplers Signa	ature:						
Sample #		Sample Description			Volume/Area (Air)	Date/Time				
		Driver/Rail Cutter- N			HA # (Bulk)	Sampled				
P-CB-033010 1338	3.110/ <u>1335.120-13</u>	35.300			1239 Overlanded	03-30-10/ 0800-1557				
	.110/1335.120-1335	nan/Walking Track-M 300	P 1337.960-		1064	03-30-10/0804-1536				
Bran	t Weisenburger- [	Driver/Cutting Rail-	MP 1337.960-			03-30-10/ 0806-				
	3.110/1335.120-133				1036	1534				
	iei Brown- Cribbe 3.110/1335.120-133	r Operator-MP 1337	.960-		1050	03-30-10/ 0808-				
		onman/General Tool	s- MP 1337.960-		1030	1538 03-30-10/0810-				
	.100/1335.120-133				1141 Overloaded	1553				
S-1338W-033010 Stati	onary Pump- Wes	t End MP 1338			2100	03-30-10/ 0840- 1340				
S-1338E-033010 Statio	onary Pump- East E	End MP 1338			2100	03-30-10/ 0840-1340				
CB-Open-033010 Cont	CB-Open-033010 Control Blank- Opened 0 03-30-10 / 1400									
Client Sample # (s): A	manda Thornton-D	DeWitt -			Total # of Samples:	8				
Relinquished (Client): A	manda Thornton-E	DeWitt Date:	4-7-10		Time	- 4				
Received (Lab):	R.K. male	Date:	4/7/10		Time					
Comments/Special Instruct	ions:	1	7 7							



### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Fax:

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-0001

Samples collected 03/30/10

Customer ID:

EMRI78

Customer PO:

Received:

04/07/10 10:35 AM

EMSL Order:

271000044

EMSL Proj:

Analysis Date:

10/16/2010

Sampling Date

3/30/2010

# Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Samuela	Location	Volume	Area Analyzed	Non	Asbestos	# Structures		Analytical Sensitivity	Asbestos Concentration	
Sample P-CB-033010 271000044-0001		(Liters) 1239.00	(m m²)	Asb Type(s)  Overloaded		$\geq 0.5\mu < 5 \qquad \geq 5\mu$		(S/cc)	(S/mm²)	(S/cc)
P-NS-033010 271000044-0002		1064.00	0.0780		None Dete	ected	· · ·	0.0046	<13.00	<0.0046
P-BW-033010 271000044-0003		1036.00	0.0780		None Detected			0.0048	<13.00	<0.0048
P-JB-033010 271000044-0004		1050.00	0.0780		None Dete	ected		0.0047	<13.00	<0.0047
P-RL-033010 271000044-0005		1141.00		<u></u>	Overloade	d				
S-1338W-033010 271000044-0006		2100.00	0.0520		None Dete	cted	<u></u>	0.0035	<19.00	<0.0035
S-1338E-033010 271000044-0007		2100.00	0.0520		None Dete	cted		0.0035	<19.00	<0.0035
CB-Open-033010 271000044-0008			0.1300		None Dete	cted			<7.70	

Analyst(s)

Roy Pescador (8)

K. Mahoney, Laworatory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-0001

Samples collected 03/30/10

Customer ID:

EMRI78

Customer PO:

Received:

04/07/10 10:35 AM

EMSL Order:

271000044

**EMSL Proj:** 

Analysis Date:

4/16/2010

Sampling Date

3/30/2010

# Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep)**

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb			Analytical Sensitivity (S/cc)	Total A Concen (S/mm²)		
P-CB-033010 271000044-0001		1239.00	0.1300	None Detected		0.1500	<480.00	<0.1500		
P-RL-033010 271000044-0005		1141.00	0.1300		None Det	ected		0.1600	<480.00	<0.1600

Analyst(s)

Roy Pescador (2)

R. K. Mahoney, Laboratory Manager or other approved signatory

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# **EMSL27 INDIRECT PREPARATION RECORD**

EMSL Analytical Inc., Libby, MT

Order ID: 2 7100001F Date: 4-12-10

Circle One: (TEM Air) TEM Dust TEM Wipes PCM

EFA: 3120 mm²

Prepared By: VP

	,						Li A.	<u> </u>	- mm 		гтератей Бу.	KO		-
*	Material	Res	Ashed Sample: uspension with A			on-AshedSamp spension withou		2nc	dresuspensio		ionFiltration 3rd	dresuspensio	n	for is
sandle*	Loose	Filter Fraction	Resuspended volume	Vol.applied to filter	Filter Fraction	Resuspended volume	Vol.applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol.applied to fitter	Vol of 2nd resuspension used	Resuspend volume	Vol.applied to filter	Prepared for Analysis
	Y/N	fraction	mL	mL	fraction	mL	mL.	mL	mL	mL	ml.	mL	mL	Y/N
P-CB-033010	N				l	100	10	10	100	10				
							80			15				¥
										25				
										50				
P-121-0330K	2					100	ID	Q	100	JØ.	10 m			
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# Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab II	D: 27	1000044-00	01			0		074	-	7			
	Client: EMR, Inc. ddress: 11 East Superior Street					Order ID         271000044         Received: 07-Apr-10           Sample ID: P-CB-033010         TAT: 24 Hour							
Addres	s: 11	East Superi	ior Street		S	•		33010		Г		esults Due	
		ite 260 luth, MN 55	802			Location:				j		/, April 08, 2010	
										0:35 AM			
Proje		29-0001	cted 03/30/1	10							DIRECT PREPA	22	
	Sa	mpies colle	ciea us/su/ i	U				<u>Sp</u>	tions	ISML 2nd old			
_	<del></del> -		NSD = No Si	tructures l	Detected	Structure	Types: { F	= = Fibe	r. B = Bundle	C = Cluster	M = Matrix }		
		T	-	E	D	Ī	LENGTH		WIDTH	Structure	SAED	EDXA	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1	VATION Amphi	Sketch	≥ 0.5 µm < 5 µm   > 5 µ		um	Туре	Negative	Chara Ama Eta	
	H2	ND	7.000000	Cinys	Ampin	OKCION	- Эріп	≥5 µr	n µm	FBCM	Number	Chrys.,Amo., Etc.	
	144	ND							†	FBCM			
	<b>——</b>	ND		_									
	46			_						FBCM			
	HS	ND								FBCM			
	HID	NP	· ·		i			<u> </u>		FBCM	<del></del> .		
2	FID	-								FBCM			
	F8	No				· · · · · · · · · · · · · · · · · · ·		-	-	FBCM			
	F6	No			-	1		ļ		FBCM			
<u> </u>	F4 c	70							<del> </del>	FBCM		-4	
<u> </u>	F2	NO							1	FBCM			
$\vdash$										FBCM			
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										FBCM			
(Tota				Caración de la caración	Kazanal III								
		bers Preser	nt	ı	Nonasbe	stos Fibers	Presen	t F	ilter Type: M	CE		EM Voltage (kv): 100	
Chrysotile						Gypsum		F	ilter Size (mm	n): <u>25</u>	М	agnification (X): 19K	
Anthophyllite					=	Glass		E	FA (sq.mm) <u>:</u>	385	Grid (	Opening Area: mm²	
Amosite Crocidolite					_	Cellulose Organic Fil	2050	Fi	Iter Pore Size	(micron): 0.	45 G	O Required:	
	ctinolite				=	Fibers Con			Sample Vol	ume (L):	1239	GO Analyzed: 10	
	emolit				ייי	.50.0 0011	iig		Grid Box # 2710 - EML-13 Row S Column 1,2				
					-	·- ·			ilter Accept	-		Yes No	
Analyet	R.	PESUADOR			Scope	27-2	<del>. "</del>		If no, reason for rejection:				
· iiaiy3					Scope			υate	<u>"עון שיון</u>				

# Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-000 Client: EMR, Inc.		02			Ord	der ID	2710	00044	]	Possivos	Received: 07-Apr-10		
Clien	t: El	MR, Inc.			_			J	TAT: 24 Hour				
Address: 11 East Superior Street Suite 260 Duluth, MN 55802					S	Sample ID Location		33010		<u>Results Due</u> <u>Thursday, April 08, 2010</u> 10:35 AM			
Project: 9329-0001 Samples collected 03/30/10									tions				
			NSD = No St			Structure	re Types: { F = Fiber,		B = Bundle,	C = Cluster	, M = Matrix }	<del>,</del>	
Grid I.D.	G.O I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	LEN ≥ 0.5 µm < 5 µm	IGTH    ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	G3	ND		<u> </u>						FBCM			
	લડ	NP								FBCM			
	G7	ND		·						FBCM			
2	G6	NP								FBCM			
	G8	NP								FBCM			
	610	NP							-	FBCM			
										FBCM			
										FBCM			
										FBCM			
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										FBCM			
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Asbe	stos F	ibers Preser	nt	ı	Vonasbe	stos Fiber	s Presen	t Fil	ter Type: M	CE		TEM Voltage (kv): 100	
Chrysotile Anthophyllite Amosite Crocidolite					(2) (3) (3)	Gypsum Glass Cellulose Organic Fi	ibers	EF	Filter Size (mm): 25  EFA (sq.mm): 385  Filter Pore Size (micron): 0.45  Magnification (X): 19K  O.0/3  Grid Opening Area: mm²  GO Required: 6				
Actinolite Tremolite					(5) F	Fibers Cor	ntaining	ume (L): 27 <i>10- EMK-)</i> ed for Anal for rejectio	alysis: 🖊 Yes 🗌 No				
Analyst R. PESCADOR					Scope	27-2		Date.	2/16/10				

# Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID	: 27'	1000044-00				Order ID 271000044					Received: 07-Apr-10			
		IR, Inc.			_	ഥ					]		24 Hour	
	dress: 11 East Superior Street Suite 260 Duluth, MN 55802					Sample ID: P-BW-033010 Location:						Results Due Thursday, April 08, 2010 10:35 AM		
			cted 03/30/1		Special Instructions									
Т			NSD = No St		·	Structu	ıre Ty					M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1 1	VATION Amphi	Sketo	- 1	LEN 0.5 μm < 5 μm	GTH ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	65	ND								- "	FBCM			
ŀ	<i>G</i> 7	NO									FBCM			
	G4)	No									FBCM	-	***	
	E6	ND									FBCM			
[	<del>2</del> 4	NO									FBCM			
	εr	No									FBCM			
											FBCM			
1									·		FBCM			
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											FBCM			
(Total)										Francisco (Activities	12 12		ren evigin in the Min min	
Asbes	tos Fi	bers Preser	nt	N	lonasbes	stos Fib	ers F	resent	Filt	er Type: Mo	CE	T	EM Voltage (kv): 100	
Chrysotile					(1)	∋ypsum	า			er Size (mm			agnification (X): 19K	
Anthophyllite					=	Slass			EF	EFA (sq.mm): 385 Grid Opening Area: mm²				
Amosite				= '	Cellulos				_	(micron): 0.4		O Required:		
	ocidoli					Organic				Sample Volume (L): 1036 GO Analyzed: 6				
	tinolite molite				∟_] (5) F	ibers C	Jonta	ining		Grid Box # 27/0-EMP-13 Row S Column				
											ed for Analy	_	Yes No	
\nalyst		2. PESUADO			Scope	27.			Date	no, reason	for rejection	n:		

# Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Client: EMR, Inc.						Orc	<u>ler ID</u>	271	000044		Received: 07-Apr-10			
Address: 11 East Superior Street Suite 260 Duluth, MN 55802					S	Sample ID: Location:		33010		TAT: 24 Hour  Results Due  Thursday, April 08, 2010				
Proje		29-0001 Imples colle	cted 03/30/ <sup>-</sup>	10				<u>Sp</u>	ecial Instruc	tions	10:35 AM			
			NSD = No S	tructures	Detected	Structure	Types: { I	F = Fiber	r, B = Bundle,	C = Cluster	M = Matrix }		<del>-</del> -	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos				<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH     ≥ 5 µn	WIDTH n µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.		
1	B4)	No								FBCM				
	87	ND								FBCM	7	***************************************		
	B5	NO								FBCM				
2	G4	Np								FBCM				
	<u>८</u> ४	NO								FBCM			-	
	GID	NP								FBCM				
			-							FBCM			electric	
										FBCM				
										FBCM				
										FBCM				
										FBCM				
										FBCM				
										FBCM				
				11/5	U.					FBCM				
					Z15					FBCM				
										FBCM				
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(Tota	)					Never High			100	1 mgan 4	n managana a a	geloo nalaa jarden Ja		
Asbe	stos Fi	bers Preser	nt		Nonasbe	stos Fiber	s Presen	nt Fi	iter Type: M	CE		TEM Voltage (kv): 100	X X	
Chrysotile Anthophyllite Amosite Crocidolite Actinolite					(2) (3) (4) (4) (4) (5)	Gypsum Glass Cellulose Organic Fil Fibers Con		Fi	Filter Size (mm): 25  EFA (sq.mm): 385  Filter Pore Size (micron): 0.45  Sample Volume (L): 1050  Magnification (X): 19  Grid Opening Area: mm²  GO Required: 6					
	emolit	e PSSADOR	, -581		<del>-</del> -	27-2		F If	Frid Box # . ilter Accept no, reason	ed for Anal	nalysis:			
~ualyS	<del></del>				Scope	-, v		Date	שיושוד					

Lab II	D: 27	1000044-00	05			<u> </u>	ler ID		000044	_ 1	Dass'	l. 07 A 40
Clien	t: EN	R, Inc.				<u> </u>		_		]		f: 07-Apr-10 ∶ 24 Hour
Addres	Sui	East Superi te 260 luth, MN 55			S	Sample ID: Location:		33010			<u>Re</u> Thursday	24 Flodi 25 Sults Due 27, April 08, 2010 10:35 AM
Proje		29-0001 mples colle	cted 03/30/1	0				<u>Sp</u>	ecial Instruc	tions //	NOWRECT PREPR ISML, 2nd	ed of lutian
			NSD = No Si	tructures l	Detected	ected Structure Types: { F			; B = Bundle,	C = Cluster	. M = Matrix }	
		****	**	Е	-		T	IGTH	WIDTH	Structure	SAED	EDXA
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1	VATION Amphi	Sketch	≥ 0.5 µm < 5 µm	≥ 5 µn	n µm	Туре	Negative Number	Chrys.,Amo., Etc.
1	DIB	ŊD								FBCM		
	08	ND								FBCM		
	D6	PD C								FBCM		
	D4	40								FBCM		
	02	29								FBCM		
2	D9	ŊĎ								FBCM		, <u>, , , , , , , , , , , , , , , , , , ,</u>
	70	ND								FBCM		
	D5	NO								FBCM		
	73	No								FBCM		
	01	No			-					FBCM		143
										FBCM		
										FBCM		
										FBCM		
						-				FBCM		
										FBCM		
			The same of the sa							FBCM		
			194	Zv.						FBCM		
			1000							FBCM		
(Tota	)			9 <b>(2</b> )			,		27.	3	1 - 25 Feb.	
		bers Preser	nt	<u>Baiet, su unada</u> In	Vonashe	stos Fibers	Presen	t   E	Iter Type: M	<u></u>		Second Control Control
	hrysoti				_	Gypsum	31 103011	' '	Iter Size (mm			FEM Voltage (kv): 100 lagnification (X): 19K
A	nthoph	yllite				Glass			FA (sq.mm):			Opening Area: mm²
	mosite				=	Cellulose			_		_	O Required: /b
	rocidol			- 1	=	Organic Fil		Sample Volume (I.): 1141 GO Analyzed:				
	ctinolite emolite				∐ (5) F —	ibers Con	taining		Frid Box #	2710-EMA	-/3 Rov	v <u>T</u> Column <u>3,4</u>
									no, reason		- —	Yes No
Analye	R	. RESCHOL			See	27-2			Alkalus	2		

		1000044-00	06			Or	der ID	2710	00044	]	Received: 07-Apr-10		
Clien		IR, Inc. East Super	ior Street		S	⊔ Sample ID	: S-1338\	W-0330	10	, –		24 Hour	
	Sı Dı	ite 260 lluth, MN 55				Location					Thursday	<u>sults Due</u> r, April 08, 2010 0:35 AM	4 - 10-1
			cted 03/30/1	10				<u>Spe</u>	ecial Instruc	tions			
			NSD = No Si	tructures i	Detected	Structure	Types: { F	= Fiber,	= Fiber, B = Bundle, C =		M = Matrix }		
Grid I.D.	G.O.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	≥ 0.5 µm	I <b>GTH</b> ≥5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
,	G4	No								FBCM			
	62	NO								FBCM			
2	હુર	NP						<u> </u>		FBCM			
	GI	WD								FBCM			<del>-</del> : .
							ļ			FBCM			
									i	FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM		<u> </u>	
								-		FBCM			
				2						FBCM			
				XI6/4						FBCM			
										FBCM			
										FBCM			
						H				FBCM		· · · · · · · · · · · · · · · · · · ·	
										FBCM			┨
(Total	)				- 1980 T	3			*	e extensive	Margarette (	era de la companya d	
Asbe	stos F	ibers Preser	nt	**************************************	Nonasbe	stos Fibe	rs Presen	t Fill	ter Type: M	CE	<u> </u>	EM Voltage (kv): 100	
A	hrysot nthoph mosite rocido	nyllite e			(2) (3) (3)	Gypsum Glass Cellulose Organic F	ibers	EF Filt		385 (micron): 0.	M: Grid ( 45 G	agnification (X): 19K  ### ### ### ### ### ################	- - -
Actinolite Tremolite						Fibers Co		G Fi	Iter Accept	ume (L):  27/0-EMR- ed for Analy for rejection	ysis: 🖊	GO Analyzed: 4  7 Column 5.6  Yes No	-
Analysi	K	PESCAPOR			Scope	27-2		Date .	4/16/10				

		1000044-00	07		<u>Order ID</u> 271000044							: 07-Apr-10	
		<b>IR, Inc.</b> East Super	ior Ctroot		S	ـــا Sample I	D: S-1338	E-0330	10	J 	TAT:	24 Hour	
	Su Du	te 260 lluth, MN 55				Location					Results Due Thursday, April 08, 2010 10:35 AM		
, ioje			cted 03/30/1	10				<u>Sp</u>	ecial Instruc	tions			
			NSD = No S	fauctumo	Detected	Ctructur	m Tumas (1	- Fib	- D - D				
			1000 - 100 3		Delected	Structur		NGTH	WIDTH	Structure	M = Matrix } SAED	EDXA	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1	VATION Amphi	Sketc	≥ 0.5 µm			Туре	Negative Number	Chrys.,Amo., Etc.	
,	FS	ah					<del>                                     </del>	20 μι	<u> </u>	FBCM	ITAINDE	5111y6.,7 1116., Etc.	
	F-7	ND								FBCM	A.d.		
2	<b>I</b> 4	NO								FBCM	-		
	Iγ	No								FBCM			
										FBCM			
		J								FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM		,	
										FBCM			
				J. 2/4				! !		FBCM		:	
				×	W					FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM			
(Tota				<u>Alamana</u> or so	e saetas es en								
		bers Preser	nt	I	_		ers Presen	it Fi	ilter Type: M	CE		EM Voltage (kv): 100	
	Chrysotile Anthophyllite					Gypsum		Fi	ilter Size (mn	n): <u>25</u>	М	agnification (X): 19K	
Andiophyline						Glass Cellulose	e		FA (sq.mm) <u>:</u>			Opening Area: mm²	
	rocidol				(4) Organic Fibers							O Required: 4	
Actinolite						(5) Fibers Containing Sample Volume					2100	GO Analyzed:	
T	emolit	е											

Analyst R. PESCADUR

Date

27-2

Scope

If no, reason for rejection:

		1000044-00	08	<u>Order ID</u> 271000044							Received	i: 07-Apr-10
		fR, Inc.	: Ott		s	ample ID	): CB-OPE	EN-033	010	]		24 Hour
Addres	Su	East Super ite 260				Location					<u>Re</u>	esults Due
	Du	luth, MN 55	802									v. April 08, 2010
Proje	ct: 93	29-0001								<u>_</u>	1	0:35 AM
-			cted 03/30/1	0				Spe	ecial Instruc	tions		
			NCD = No C	· · · · · · · · · · · · · · · · · · ·	Data ata d	Odminations	T					
			NSD = No St	E		Structure		- = FIDER NGTH	WIDTH	C = Cluster, Structure	M = Matrix } SAED	EDXA
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	I	VATION Amphi	Sketch	≥ 0.5 µm		Ì	Туре	Negative Number	Chrys.,Amo., Etc.
<u>/</u>	<u>C9</u>	No								FBCM		
	<b>C7</b>	No								FBCM	· ·	
	C5_	NO								FBCM		
	c3	ND								FBCM		
	cı	ND								FBCM		
2	FZ	No								FBCM		
	FU	No								FBCM	-	
	F6	No	***							FBCM		
	F8	No								FBCM	<u> </u>	
	F/0	No								FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
			m							FBCM		
				14/0						FBCM		
										FBCM		
										FBCM		
(Tota	l)	-									Service Servic	en en la
Asbe	stos F	bers Preser	nt	1	Vonasbe	stos Fibe	rs Presen	t Fi	lter Type: M	CE		ΓΕΜ Voltage (kv): 100
	hrysoti			į		Sypsum		Fi	lter Size (mm	): <u>25</u>	м	agnification (X): 19K
	nthoph mosite	-			= ` `	Glass Cellulose		EF	=A (sq.mm) <u>:</u>	385		Opening Area: mm²
	rocidol				= :	⊅e⊪ulose Drganic F	ibers		ter Pore Size		45 G	O Required: 10
A	ctinolit	е				ibers Co		<u> </u>	Sample Vol		.2	GO Analyzed: 10
<b>T</b>	emolit	е							Frid Box # .			v <u>//</u> Column <u>3,4                                    </u>
									no, reason	-		. C3 [] NO
Analys		R. PESCAL	06R		Scope	27-2	, <u>-</u>			4/10		
								/	MINDE			

#### **INTERNAL CHAIN OF CUSTODY**

4/1/2010 11:38:59 AM

Order ID: 271000032

Attn:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

9329-001

Duluth, MN 55802

Fax: Project: (218) 625-2337

Phone: (218) 625-2332

Customer ID:

EMRI78

Customer PO:

Received:

04/01/10 11:15 AM

271000032

EMSL Order: EMSL Proj ID:

Cust COC ID

Test: TEM AHERA	<u>Matrix</u> Air	<u>TAT:</u> 24 Ho	our	Qty:	8
Acct Sts: BillingFrequency:	Sisprsn: rdemalo	Sample Condition:	noney Acceptable Unacceptable nments	Date: 4	4/1/2010
☐ Exempt from prep charg☐ Exempt from lab opening☐ Exempt from layer/alique	g fee	Prepped: Analyzed: Data Entry: Screened: Mailed:	A Rpm	Date: _ Date: _ Date: _ Date: _ Date: _	4/1/10 4/2/16 -115/10

#### **Internal Comment**

**Special Instructions** 

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000032	271000032-0001	P-RH-033010		4/2/2010 11:15:00 AM
271000032	271000032-0002	P-JH-033010		4/2/2010 11:15:00 AM
271000032	271000032-0003	P-BG-033010		4/2/2010 11:15:00 AM
271000032	271000032-0004	P-RF-033010		4/2/2010 11:15:00 AM
271000032	271000032-0005	P-TB-033010		4/2/2010 11:15:00 AM
271000032	271000032-0006	S-1341.8W033010		4/2/2010 11:15:00 AM
271000032	271000032-0007	S1342E033010		4/2/2010 11:15:00 AM
271000032	271000032-0008	BK-033010		4/2/2010 11:15:00 AM



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

27/000032

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

					E	MSL-B	ill to: S	Same Diff structions in Con	erent			
Company : EMR, Inc				<b>*</b> 1.1				en authorizatio		artv		
Street: 11 E. Superior	Street, Suite #								try: USA	arty .		
City: Duluth		State/Pr	rovince: MN	Zip/Post			<u> </u>	Court	иу. оод			
Report To (Name): Sc	ott Carney			Fax #: (2								
Telephone #: (218) 62	25-2332 x 303			Email Ac	ddress	: came	ey@emr-iı	nc.com				
Project Name/Number	9329-001			r: U.S. State Samples Taken: Montana								
Please Provide Resul	ts: 🗌 Fax	⊠ Email	Purchase Order around Time (TAT)		Diago			ampies rake	II. MOIIGIR			
Панан	lour 🔯	24 Hour	48 Hour	72 H	lour	1 🗀 9	6 Hour	1 Week		Week		
		and to oobs	dulo *Thora is a promiu	m chame for	3 Hour	TEM AHE	RA or EPA	Level II TAT. Y	ou will be aske	ed to sign		
an authorization for	m for this service.	Analysis o	completed in accordance  TEM - Air  4-4.	WILL ENISE	S IGIIIS	and Con	TEM- Du	od iir aro z ardiya	Cai r rice Cuid	<u>.                                    </u>		
PCM - Air			AHERA 40 CFI			,y <i>,</i>		vac - ASTM I	5755	1		
☐ NIOSH 7400			NIOSH 7402	T, Fait 70.	3		_	- ASTM D64		ł		
w/ OSHA 8hr. TWA			☐ NIOSH 7402				. —	et Sonication		-93/167)		
PLM - Bulk (reporting		l	<b>—</b>					k/Vermiculi				
☐ PLM EPA 600/R-93/			☐ ISO 10312					CARB 435 - A	_	nsitivity)		
☐ PLM EPA NOB (<19	%)		TEM - Bulk TEM EPA NOB					CARB 435 -				
Point Count	00 ( -0 40/)		NYS NOB 198.		hle-NY	`		CARB 435 -				
□ 400 (<0.25%) □ 10			☐ Chatfield SOP	+ (11011-111a	DIC 111	,	☐ TEM	CARB 435 -	C (0.01% se	ensitivity)		
Point Count w/Gravime			TEM Mass Ana	lveis-FPA	600 se	c 2.5		Protocol (Ser				
☐ 400 (<0.25%) ☐ 10			TEM - Water: EP/			<u> </u>		Protocol (Qu				
NYS 198.1 (friable			Fibers >10µm		☐ Drinl	kina	Other:					
☐ NYS 198.6 NOB (n			All Fiber Sizes									
☐ NIOSH 9002 (<1%)		ok Eos D	ositive Stop - Cl				enous G	roup				
	☐ Chec	CK FOI F	OSILIVE STOP - OIL	l lace		<u> </u>			2.14			
Samplers Name: Mike	e Mckav			Sample	ers Sig	nature:	$\gamma\gamma$	like r	Arcka	4		
Campioro numer				<u> </u>				e/Area (Air)	Date/ Sam			
Sample #			Sample Descriptio	<u>n</u>			HA	# (Bulk)	Sam	pieu		
P-RH-033010	Don Haves-Se	ction Man	ı-MP-1344D-1340B				732		3-30-10	L		
P-KH-033010									2 20 10	2		
P-JH-033010	John Hobbs-S	ection Ma	n-MP-1344D-1340B				730		3-30-10			
P PC 022010	Prion Cortmo	n Crouns	5-MP-1344D-1340B				722		3-30-10	v		
P-BG-033010	DLISH GRUMA	in-Group.	- NII - 1344D 1340D									
P-RF-033010	Randy Finley-	-Group5-N	MP1344D-1340B				728		3-30-10			
							748		3-30-10	v		
P-TB-033010	Trevor Beers-	Plugger-N	MP1344D-1340B				740					
S-1341.8W033010	MP-1341.8 W	estend					2135		3-30-10			
3-1341.8W033010	WIL 10 VIII	<u> </u>					2120		3-30-10	L		
S1342E033010	MP-1342 East	tend					2128		3-30-10			
BK-033010	BK-Opened						10		3-30-10	·		
Client Sample # (s):	Mike Mck	av	-				Total # c	of Samples:	8			
			Data		4-1-1	n		Time	e: 11:15			
Relinquished (Client	: Mike McK	ay /	Date:			<u> </u>						
Received (Lab):	R.16.	Mack	Ones Date:	4/,	1/10			Time	e: ///5			
Comments/Special II	nstructions:	- ( -		•								

Controlled Designation & Alberton COO DO 4140 DOAD



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
5 011 (55)		725	3(30(10
P-RH-033010	Ron Hayes- Section Man. MP. 13440.1340B	732	08:01-14:07 3BO(10
_		720	· ·
6.2H.039010	John Hayes Section Man Up 13440-1340B	730	08:04-14:09
			3130110
P.BG-033010	Brian Gartman-Group 5-MP 1344D-1340B	722	08:05.14:06
	_		3130110
P-RF-033010	Randy Finley - Group 5 - MP-1344D-1340B	728	08:06-14:10
	•		3130110
P.TB 033010	Tranor Beers - Plugger MP 1344D - 1340B	748	07:59-14:13
	• • • • • • • • • • • • • • • • • • • •		3(30(10
5-1341.8 WOZZA	MP-1341.8-Westend	2(35	08:55-14:00
			3130110
5.1342.F03301D	MP. 1342-Easterd	2(28	08:57.14:01
3 (3 (20320.0			
BK-033010	BK-Opened	MA	3(30/10
DK 033010	DK OPERED		
		<u> </u>	
			1
*Comments/Specia	I Instructions:		



#### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

9329-001

Fax:

Project:

Samples collected 3/30/2010

Customer ID:

EMRI78

Customer PO:

Received: EMSL Order:

04/01/10 11:15 AM

271000032

EMSL Proj: Analysis Date:

4/2/2010

Sampling Date:

3/30/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structur ≥ 0.5µ < 5µ		Analytical Sensitivity (S/cc)	Asbe Concen (S/mm²)	
P-RH-033010 271000032-0001		732.00	0.1300		None Dete	ected		0.0040	<7.70	<0.0040
P-JH-033010 271000032-0002		730.00	0.1300		None Dete	octed		0.0041	<7.70	<0.0041
P-BG-033010 271000032-0003		722.00	0.1300		None Dete	cted		0.0041	<7.70	<0.0041
P-RF-033010 271000032-0004		728.00	0.1430	***	None Dete	cted		0.0037	<7.00	<0.0037
P-TB-033010 271000032-0005		748.00	0.1300		None Dete	cted		0.0040	<7.70	<0.0040
S- 1341.8W033010 271000032-0006	. 10	2135.00	0.0520		None Dete	cted		0.0035	<19.00	<0.0035
S1342E033010 271000032-0007		2128.00	0.0520		None Dete	cted	****	0.0035	<19.00	<0.0035
BK-033010 271000032-0008			0.1300	-1/-	None Dete	cted		<u></u>	<7.70	· · ·

Analyst(s)

Roy Pescador (8)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Lab ID: 271000032-0001 Order ID 271000032 Received: 01-Apr-10 Client: EMR, Inc. TAT: 24 Hour Sample ID: P-RH-033010 Address: 11 East Superior Street Results Due Suite 260 Location: **Duluth, MN 55802** Friday, April 02, 2010 11:15 AM Project: 9329-001 Special Instructions

			NSD = No Si	tructures L	Detected	Structure	Types: { F	= Fiber	r, B = Bundle,	C = Cluster	, M = Matrix }	
Grid I.D.	G.O.	Structure Number	Non	1	VATION	Cleatab	≥ 0.5 µm		WIDTH	Structure Type	SAED Negative	EDXA
i.D.	I.D.		Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥ 5 µr	n µm		Number	Chrys.,Amo., Etc.
	G <sup>2</sup>	ND								FBCM		
	GY	NA	<u> </u>		-					FBCM		
	G6	NO								FBCM		17.4
	G8	ND							<u></u>	FBCM		
	G10	ND								FBCM		
<u> </u>	вЭ	ND						<u> </u>		FBCM		
	B7	NO					ļ			FBCM		
	95	NO								FBCM		
	<i>B</i> 3	ND								FBCM		
	BI	ND								FBCM		
										FBCM		
										FBCM		
			_							FBCM		
			194	<b>b</b> /.						FBCM		
			′ // `							FBCM		
										FBCM		
										FBCM		
										FBCM		
Tota	1)											
Asbe	stos Fi	bers Prese	nt	Ī	Vonasbe	stos Fiber	s Presen	it F	ilter Type: M	CE		EM Voltage (kv): 100
c	hrysoti	le				Gypsum		F	ilter Size (mn	n): 25		agnification (X): 19K
	nthoph					Glass			:FA (sq.mm):	-		Opening Area: mm² <sup>O</sup> -Ø
	mosite				= ' '	Cellulose		F	ilter Pore Size	e (micron): 0		O Required: 10
	rocidol					Organic Fi			Sample Vo	lume (L):	<u>732</u>	GO Analyzed: 10
Actinolite (5) F				Fibers Cor	itaining	Grid Box # 2710 - 8417-13 Row A Column 1						
					<u>_</u>			Filter Accept			Yes No	
		pesca001	7			27.2			f no, reason <u>4/</u> ปเง	for rejection	on:	

		1000032-00	02			Ord	ler ID	271	1000032	1	Received	: 01-Apr-10				
	s: 11 Su	IR, Inc. East Superiite 260 luth, MN 55			S	Sample ID: Location:	P-JH-03	33010			TAT: <u>Re</u> <u>Friday,</u>	24 Hour <u>sults Due</u> <u>April 02, 2010</u> 1:15 AM				
Proje	ct: 93	29-001							pecial Instruc							
	1	<del></del>	NSD = No St			Structure			er, B = Bundle,	r'		т				
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	ED RVATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 µm < 5 µm	NGTH    ≥5µ	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.				
,	<del> </del>	ND		0,0	7 11112111			2 J P	,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FBCM	Number	Omyo.,, ano., 20.				
1	C9 C7	ND		<u> </u>						FBCM						
		<u> </u>				<u> </u>				FBCM		-				
	C5	ND								FBCM		10.00				
	<u>c3</u>	NA				<del> </del>				FBCM	<u> </u>					
2	H2	ND								FBCM	<u> </u>					
	HH	ND		<u> </u>						FBCM	<u> </u>					
	ì		<u> </u>							FBCM						
	H8 H6	ND					<u> </u>			FBCM						
	H10	ND								FBCM						
$\vdash$	HIE	100						-		FBCM	<u> </u>					
						<del> </del>		-		FBCM						
			l					<u> </u>		FBCM						
				<u> </u>			<b></b>			FBCM						
				4/4/v						FBCM						
			- 0	7200				ļ	<del> </del>	FBCM						
										FBCM						
										FBCM		· · · · · ·				
<u> </u>	<u> </u>									FBCM		Maria - Jihada ya <u>A</u> waita e .				
(Tota		ibers Prese	l	Man ( )	Nonach-	stos Fiber	o Proces	<u> </u>	i i i i i i i i i i i i i i i i i i i		ania andida aida aana ahaa aa dada	ikita azar				
1 —	hrysot		iii.	ĺ		Sios ribei Gypsum	s Fiesel		Filter Type: M			TEM Voltage (kv): 100				
	nthop					Glass		- 1	Filter Size (mr EFA (sq.mm):		<del></del>	lagnification (X): 19K				
_ ^	mosite	)				Cellulose		- 1	EFA (sq.mm) <u>.</u> Filter Pore Size		_	Opening Area: mm² O Required: /D				
	Crocidolite					Organic Fi	bers	'	Sample Vo		730	GO Analyzed: 10				
	Actinolite Tremolite					Fibers Cor	ntaining		Grid Box # 7	510-EUR-1	3Rov					
		<u> </u>			If no, reason for rejection:											
Analys	t <u>R</u>	PESCADOR			Scope	27-2										

CFR Part 763 Appendix A to Subpart E Lab ID: 271000032-0003 271000032 Order ID Received: 01-Apr-10 Client: EMR, Inc. TAT: 24 Hour Sample ID: P-BG-033010 Address: 11 East Superior Street Results Due Location: Suite 260 Friday, April 02, 2010 Duluth, MN 55802 11:15 AM Project: 9329-001 Special Instructions Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix } NSD = No Structures Detected FD LENGTH **EDXA** WIDTH Structure SAED **OBSERVATION** Grid G.O. Structure ≥ 0.5 µm Type Non Negative Number **Asbestos** L.D. Chrys Amphi Sketch < 5 µm μm Chrys., Amo., Etc. ≥ 5 µm Number GX II **FBCM** ND I4 **FBCM** ND **FBCM** ND 16 IR **FBCM** ND TID Ď **FBCM** 2 F9 ND **FBCM FBCM** F7 MD ND F5 **FBCM** ND **FBCM** F3 ΝD **FBCM FBCM FBCM FBCM FBCM FBCM FBCM FBCM FBCM** (Total) **Asbestos Fibers Present** Nonasbestos Fibers Present Filter Type: MCE TEM Voltage (kv): 100 Chrysotile (1) Gypsum Filter Size (mm): 25 Magnification (X): 19K Grid Opening Area: mm² Anthophyllite (2) Glass EFA (sq.mm): 385 **Amosite** (3) Cellulose GO Required: Filter Pore Size (micron): 0.45 Crocidolite (4) Organic Fibers Sample Volume (L): GO Analyzed: 10 **722** Actinolite (5) Fibers Containing Grid Box # 2710- EMR- 13 .Column <u>5, 5</u> **Tremolite** 

Analyst R. PESCADOR

No

/ Yes

Date

27-2

Scope

Filter Accepted for Analysis:

If no, reason for rejection:

Lab II	D: 27	1000032-00	04		<b></b>		er ID		1000032	~ 1	Deschar	l. 04 Ama 40	
		IR, Inc.								J		l: 01-Apr-10 : 24 Hour	
	Sui Du	East Superi te 260 luth, MN 55			S	Sample ID: Location:		33010	1		<u>Re</u> Friday,	April 02, 2010	
Proje	ct: 93	29-001						_					
								<u>s</u>	pecial Instruc	tions			
		<u></u>											
			NSD = No Si		Detected	Structure	T	- = Fib NGTH	er, B = Bundle WIDTH	C = Cluster, Structure	M = Matrix }	EDXA	
Grid	G.O.	Structure	Non	OBSER	RVATION		≥ 0.5 µm		Wilder	Type	Negative		
1.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥5µ	hw hw		Number	Chrys.,Amo., Etc.	
/	62	ND								FBCM		<u> </u>	
	G4	ND						ļ		FBCM			
	66	ND		ļ			ļ			FBCM			
	G&	ND		ļ						FBCM		<u>*</u>	
	GIØ	ND						ļ		FBCM			
2	GI	ND								FBCM			
	G3	ND								FBCM			
	65	ND								FBCM			
	66	ND								FBCM			
	<i>G</i> 8	ND								FBCM			
	G10	N								FBCM			
				}						FBCM			
										FBCM			
										FBCM			
			M	41.						FBCM	·· <del>· · · · ·</del>		
			100	4/4/0						FBCM			
							*****			FBCM			
								<u> </u>		FBCM			
(Tota	l)										atianci e		
_	-	bers Prese	nt	****	Nonasbe	stos Fiber	s Preser	nt	Filter Type: M	ICE	e kaldid <b>ekinesi</b> n musike ili etimb	TEM Voltage (kv): 100	
	hrysot	ile			(1)	Gypsum			Filter Size (mr			lagnification (X): 19K	
	nthoph	yllite			(2)	Glass			EFA (sq.mm):			Opening Area: mm²	
	mosite				= '	Cellulose			Filter Pore Size	e (micron): 0	_	O Required: /o	
1 ==	rocido				(4) Organic Fibers Sample Volume (					lume (L):	<u>728</u>	GO Analyzed: 10	
$1 \equiv$	ctinolit remolit				(5) Fibers Containing  Grid Box # 2710-EMIR								
					Filter Accepted for Analysis: Yes No								
<u> </u>		DEXTA DAN	7			77-5	1		If no, reason	tor rejection	on:		
Analys	t _&_	PescADO1			Scope	27-2	<u>-                                      </u>	Date	4/2/10				

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E Lab ID: 271000032-0005 Order ID 271000032 Received: 01-Apr-10 Client: EMR, Inc. TAT: 24 Hour Sample ID: P-TB-033010 Address: 11 East Superior Street Results Due Suite 260 Location: **Duluth, MN 55802** Friday, April 02, 2010 11:15 AM Project: 9329-001 Special Instructions NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix } LENGTH ED WIDTH **EDXA** Structure SAED **OBSERVATION** G.O. Type Grid Structure ≥ 0.5 µm Non Negative Number I.D. I.D. Asbestos Sketch Chrys Amphi < 5 µm ≥ 5 µm μm Number Chrys., Amo., Etc. 59 NA **FBCM B**7 **FBCM** ND ND **FBCM B**5 ВЭ P **FBCM** 31 ND **FBCM** 2 ΝÞ **FBCM** J2 14 Ŋ **FBCM** ND 16 **FBCM** JØ ND **FBCM** 110 ND **FBCM** 

**FBCM FBCM FBCM FBCM FBCM FBCM FBCM FBCM** (Total) Asbestos Fibers Present Nonasbestos Fibers Present Filter Type: MCE TEM Voltage (kv): 100 Chrysotile (1) Gypsum Filter Size (mm): 25 Magnification (X): 19K Anthophyllite (2) Glass EFA (sq.mm): 385 Grid Opening Area: mm² **Amosite** (3) Cellulose GO Required: Filter Pore Size (micron): 0.45 Crocidolite (4) Organic Fibers Sample Volume (L): GO Analyzed: 10 748 Actinolite (5) Fibers Containing Grid Box # 2710-EMK- 13 .Column <u>3.*ป*ี</u> **Tremolite** Filter Accepted for Analysis: ✓ Yes If no, reason for rejection: R. PESCHDOTE 27 -2 4/2/10 Analyst . Scope Date

		1000032-00 IR, inc.	06			Ora	<u>ler ID</u>	2710	00032			: 01-Apr-10
		ik, inc. East Superi	ior Street		S	ample ID:	S-1341.	8W0330	10	r-	1900	24 Hour
nuui es	Sui	ite 260				Location:						sults Due
	Du	luth, MN 55	802									<u>April 02, 2010</u> 1:15 AM
Projec	t: 93	29-001								Ļ		1:15 AM
								Spec	cial Instruc	<u>tions</u>		
		•	NSD = No Si	tructures l E		Structure	<del>,</del>	= Fiber,			, M = Matrix }	EDV4
Grid	G.O.	Structure	Non		VATION		≥ 0.5 µm		WIDTH	Structure Type	SAED Negative	EDXA
I.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥5 µm	μm		Number	Chrys.,Amo., Etc.
)	GL	ND								FBCM		
	G8	ND								FBCM		
2	F7	ND								FBCM		
	Fg	ND								FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM	1	······

**FBCM FBCM** (Total) **Asbestos Fibers Present** Nonasbestos Fibers Present Filter Type: MCE TEM Voltage (kv): 100 Chrysotile ☐ (1) Gypsum Filter Size (mm): 25 Magnification (X): 19K Grid Opening Area: mm² Anthophyllite (2) Glass EFA (sq.mm): 385 Amosite (3) Cellulose GO Required: 4 Filter Pore Size (micron): 0.45 Crocidolite (4) Organic Fibers Sample Volume (L): 2135 GO Analyzed: 4 Actinolite (5) Fibers Containing Grid Box # 2710-EMR-13 Row B Column 5.6 Tremolite Filter Accepted for Analysis: ✓ Yes If no, reason for rejection: Analyst R. PESCADOR

FBCM FBCM **FBCM** FBCM **FBCM FBCM FBCM** 

Date

Scope <u>27-2</u>

CFR Part 763 Appendix A to Subpart E Lab ID: 271000032-0007 Order ID 271000032 Received: 01-Apr-10 Client: EMR, Inc. TAT: 24 Hour Sample ID: S1342E033010 Address: 11 East Superior Street Results Due Location: Suite 260 Duluth, MN 55802 Friday, April 02, 2010 11:15 AM Project: 9329-001 Special Instructions

			NSD = No Si	tructures E	Detected	Structure	Types: { F	= Fibe	r, B = Bundle,	C = Cluster,	M = Matrix }	
O-:-1		C4	N	OBSER	D VATION	•		IGTH	WIDTH	Structure Type	SAED	EDXA
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1 1	Amphi	Sketch	≥ 0.5 µm < 5 µm	≥5 µ	m µm	Type	Negative Number	Chrys.,Amo., Etc.
1	D/5	da								FBCM		
	D3	ND								FBCM		
2	<b>B</b> 3	ND								FBCM		- 110
	BI	ND								FBCM		
\										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
					•					FBCM		
										FBCM		
										FBCM		
				18	XX.					FBCM		
					1					FBCM		
										FBCM		
										FBCM		
										FBCM		
						·				FBCM		
(Total	)											
Asbe	stos F	bers Preser	nt	ľ	Nonasbe	stos Fibers	s Presen	t I	Filter Type: M	CE		TEM Voltage (kv): 100
	hrysoti				_	Gypsum			Filter Size (mn	n): <u>25</u>	M	agnification (X): 19K
	Anthophyllite				_	Glass			EFA (sq.mm):	385	Grid	Opening Area: mm²
	Amosite					Cellulose		F	Filter Pore Size	(micron): 0.	45 G	O Required: 4
	Crocidolite Actinolite			(4) 0					Sample Vo	ume (L):	2128	GO Analyzed: 4
	Tremolite				(5) Fil			Grid Box # 2710-EMPC-13				v <u>C</u> Column <u>/,2</u>
'יי		=							Filter Accepted for Analysis: Yes No			
		PISCA00	-4			27-2	_		If no, reason	for rejectio	n:	

AHERA7.9.0

		1000032-00	08			Ora	ier ID		000032	]	Received	l: 01-Apr-10
	ss: 11 Su	IR, Inc. East Super ite 260 luth, MN 55			S	Sample ID: Location:		010			<u>Re</u> Friday,	24 Hour esults Due April 02, 2010 1:15 AM
Proje	ct: 93	29-001							oecial Instruc			
	T	Γ -	NSD = No St	ructures L E		Structure					, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	VATION Amphi	Sketch	≥ 0.5 µm < 5 µm	IGTH     ≥ 5 μι	width m µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	DIO	No		-						FBCM		
	Pg	ND								FBCM	77	
	D6	ND								FBCM		
	04	ND								FBCM		
	DZ	ND								FBCM		
2	29	NA								FBCM		
	רם	ND								FBCM		
	DS	ND								FBCM		
	D3	ND	77							FBCM		
	וס	ND								FBCM		
										FBCM	· · · · · · · · · · · · · · · · · · ·	
										FBCM	- · · · · · · · · · · · · · · · · · · ·	-
										FBCM		
										FBCM		
				1/2/1	- "					FBCM		
			J	***						FBCM		
								-		FBCM		
							-		<u> </u>	FBCM		
(Tota	l)											
Asbe	stos F	bers Prese	nt	1	Nonasbe	stos Fiber	s Presen	l F	Filter Type: M	ICE	tio tandital new	TEM Voltage (kv): 100
☐ A ☐ A ☐ C	hrysoti nthoph mosite rocidol ctinolit	yllite ite			(2) (3) (4) (4) (4)	Gypsum Glass Cellulose Organic Fil Fibers Cor		F	Filter Size (mr EFA (sq.mm): Filter Pore Size Sample Vo	n): <u>25</u> 385 e (micron): <u>0</u> lume (L):	Grid	lagnification (X): 19K  O/O/3  Opening Area: mm²  O Required: //O  GO Analyzed: //O
	remolit	e Pes <i>cade</i>	M		Scope	27-2			Grid Box # Filter Accep If no, reasor <u>4/2/10</u>	ted for Anal	ysis: /	v <u>C</u> Column <u>3,∜</u> Yes ☐ No

	_				0111	_ 0.2 0 7 0.	PP	UIIGIA 2	10 500	part 2		QC
Lab II Clien						Org	ier ID :	271 <i>00</i> 8	032		Received	•
Addres					S	Sample ID:	LB	•	· · · · · · · · · · · · · · · · · · ·		TAT	•
,						Location:				1	Re	esults Due
Proje	ct:									Ļ		
								Sp	ecial Instruc	tions		
			NSD = No St	nichires [	)etected	Structure T	was: (E	- Eibar	B = Bundle, (		M = M-14-1	
	<u> </u>	T	1	E	D	Structure		- FIDER, I	WIDTH	Structure	M = Matrix )	EDXA
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos		VATION	Clean	≥ 0.5 µm	1		Туре	Negative	
1	62	ND	Aspesios	Chrys	Amphi	Sketch	< 5 µm	≥5 µn	կ հա	5004	Number	Chrys.,Amo., Etc.
<del>                                     </del>	GU	NO		<u> </u>		<del> </del>		-	1	FBCM		
		ND				ļ			<u> </u>	FBCM		
	66	ND								FBCM		
	G8	ND						ļ		FBCM		
	<u>610</u>	<del>                                     </del>							<b> </b>	FBCM		
2	CI	ND	····							FBCM		
	<i>C3</i>	ND								FBCM		
		142/10							ļ	FBCM		
	4	ND								FBCM		
	<u>C7</u>	NP								FBCM		
	<u>c9</u>	ND								FBCM		
$\rightarrow$										FBCM		
	$\longrightarrow$									FBCM		
			VIII							FBCM		
			/ 8 //z	<b>/</b>						FBCM		
										FBC M		
			·							FBCM		
										FBCM		
(Total	)											
		bers Presen	it	١	lonasbes	tos Fibers	Presen	t Fil	ter Type: MC	E	7	EM Voltage (kv): 100
	nrysoti					Sypsum		Fil	ter Size (mm)	: 25	M:	agnification (X): 19K
	nthoph; mosite	=			=	Slass		EF	A (sq.mm) <u>: 3</u>	185	Grid (	Opening Area: 0.013 MAL
	ocidoli			1		Cellulose Organic Fit	nere	Fill	er Pore Size	(micron): <u>0.4</u>	5 G	O Required: 19
<b>=</b>	tinolite					ibers Con		<u> </u>	Sample Vol			GO Analyzed: /b
Tr	emolite	9			Grid Box # 2716-EM							
					Filter Accepted for Analys  If no, reason for rejection						Yes No	
Inglyst	R.PE	SUADOIL	······································	<u></u>	Scope	27-2		Doto	. 51 1 5 5 5 5 6 6			

#### **INTERNAL CHAIN OF CUSTODY**

4/7/2010 2:25:31 PM

Order ID: 271000043

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-001

Samples collected 03/31/10

Phone: (218) 625-2332

EMSL Order:

Received:

EMSL Proj ID:

Customer ID:

Customer PO:

**Cust COC ID** 

EMRI78

04/07/10 10:34 AM

271000043

24 Hour Test: **TEM AHERA Matrix** Air TAT: 8 Qty: **Acct Sts:** Sisprsn: rdemalo Logged: rpescador Date: 4/7/2010 **Sample** ✓ Acceptable **BillingFrequency: Condition:** ☐ Unacceptable Comments ☐ Exempt from prep charge Date: ☐ Exempt from lab opening fee Prepped: Analyzed: Date: ☐ Exempt from layer/aliquot charges **Data Entry:** Date: Date: Screened: Mailed: Date: **Special Instructions** 

#### **Internal Comment**

Order ID	Lab Sample#	Cust. Sample #	Location	Due Date
271000043	271000043-0001	P-T8-033110		4/8/2010 10:34:00 AM
271000043	271000043-0002	P-LS-033110		4/8/2010 10:34:00 AM
271000043	271000043-0003	P-TS-033110		4/8/2010 10:34:00 AM
271000043	271000043-0004	P-JB-033110		4/8/2010 10:34:00 AM
271000043	271000043-0005	P-KK-033110		4/8/2010 10:34:00 AM
271000043	271000043-0006	S-1332W-033110		4/8/2010 10:34:00 AM
271000043	271000043-0007	S-1332E-033110		4/8/2010 10:34:00 AM
271000043	271000043-0008	CB-Open-033110		4/8/2010 10:34:00 AM



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000043

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				Bill to: Same Different note instructions in Co						
Street: 11 E. Superior Street, Suite #	260		Third Party Billing re	equires written authorizati	on from third party					
City: Duluth	State/Province: M	IN	Zip/Postal Code: 5580		ntry: USA					
Report To (Name): Scott Carney			Fax #: (218) 625-2337							
Telephone #: (218) 625-2332 x 303			Email Address: carno							
Project Name/Number: 9329-001				- Jestin III - III						
	⊠ Email   Purcha	se Order	: U.S	S. State Samples Tak	en: Montana					
			Options* – Please Ched	ck						
	4 Hour			6 Hour 📗 1 Weel						
*For TEM Air 3 hours/6 hours, please call ahe an authorization form for this service.	ead to schedule.* I here is Analysis completed in a	is a premiui accordance	m charge for 3 Hour TEM AHE with EMSL's Terms and Con	ERA or EPA Level II TAT. Iditions located in the Analy	You will be asked to sign tical Price Guide.					
PCM - Air			5hr TAT (AHERA only)	TEM- Dust						
☐ NIOSH 7400		A 40 CFF	R, Part 763	☐ Microvac - ASTM	D 5755					
☐ w/ OSHA 8hr. TWA	☐ NIOSH	H 7402		☐ Wipe - ASTM D6480						
PLM - Bulk (reporting limit)	☐ EPA L	evel II		☐ Carpet Sonication (EPA 600/J-93/167)						
☐ PLM EPA 600/R-93/116 (<1%)	☐ ISO 10	0312		Soil/Rock/Vermiculite						
☐ PLM EPA NOB (<1%)	TEM - Bul	lk		☐ PLM CARB 435 -	A (0.25% sensitivity)					
Point Count	☐ TEM E	PA NOB		☐ PLM CARB 435 -	•					
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ NYS N	OB 198.4	(non-friable-NY)	☐ TEM CARB 435 -						
Point Count w/Gravimetric	☐ Chatfie	eld SOP		☐ TEM CARB 435 -	C (0.01% sensitivity)					
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	□ ТЕМ М	lass Anal	ysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)						
☐ NYS 198.1 (friable in NY)	TEM - Wa	ater: EPA	100.2	☐ EPA Protocol (Quantitative)						
☐ NYS 198.6 NOB (non-friable-NY)	Fibers >10	Dμm 🔲	Waste Drinking Other:							
☐ NIOSH 9002 (<1%)	All Fiber S	Sizes 🔲	Waste   Drinking							
	k For Positive Sto	op – Cle	arly Identify Homoge	nous Group						
	· · · · · · · · · · · · · · · · · · ·	•		•						
Samplers Name: Amanda Thornton-	DeWitt	·	Samplers Signature:							
Sample #	Sample Des	scription	1	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled					
	Group 5 Machines				03-31-10/0802-					
P-TW-033110	-			996	1638					
P-LS-033110 Lynnard Spiry	-Asst. Foreman/ W	alking Ti	rack-MP 1331.80-	986	03-31-10/0759- 1625					
	Group 5 Machines	/Rail Hea	iter/Bomb- MP		03-31-10/ 0806-					
P-TS-033110 • 1331.80-1332.	50			1011	1657 03-31-10/0804-					
P-JB-033110   ✓ Jermel Brown	- Cribber Operator-	- MP 133	1.80-1332.50	1000	1644					
P-KK-033110 V Kasey Kerwin	- Laborer- MP 1331	80-1332	50	965	03-31-10/0810- 1615					
	mp-West End- MP 1			2280	03-31-10/ 0810- 1615					
S-1332E-033110 Stationary Pump- East End- MP 1332 2280 03-31-10/0810-1615										
CB-Open-033110   ✓ Control Blank-	Opened	<u> </u>		0	03-31-10/ 1645					
	ornton-DeWitt	•		Total # of Samples:	8					
5 !!		_			1					
Relinquished (Client): Amanda Th	ornton-DeWitt	Date:	04-07-10	Time	: 1034					
Received (Lab): R. /l. W	allowing	Date:	4/7/10	Time	: 1034					
Comments/Special Instructions:			, ,							



#### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID:

EMRI78

11 East Superior Street

Customer PO: Received:

04/07/10 10:34 AM

Suite 260

EMSL Order:

271000043

**Duluth, MN 55802** 

(218) 625-2337 Project:

Fax:

9329-001

Phone: (218) 625-2332

EMSL Proj: Analysis Date:

4/15/2010

Samples collected 03/31/10

Sampling Date:

3/31/2010

#### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥	:5μ	Analytical Sensitivity (S/cc)	Asbe Concen (S/m m²)	
P-TW-033110 271000043-0001		996.00	0.0780		None Dete	cted	-	0.0050	<13.00	<0.0050
P-LS-033110 271000043-0002	3.5	986.00	0.0910		None Dete	cted		0.0043	<11.00	<0.0043
P-TS-033110 271000043-0003		1011.00	0.0780		None Dete	cted		0.0049	<13.00	<0.0049
P-JB-033110 271000043-0004		1000.00	0.0780		None Dete	cted		0.0049	<13.00	<0.0049
P-KK-033110 <i>271000043-0005</i>		965.00	0.0910		None Dete	cted		0.0044	<11.00	<0.0044
S-1332W-033110 271000043-0006		2280.00	0.0520		None Dete	cted		0.0032	<19.00	<0.0032
S-1332E-033110 271000043-0007		2280.00	0.0520		None Dete	cted		0.0032	<19.00	<0.0032
CB-Open-033110 271000043-0008			0.1300		None Dete	cted			<7.70	

Analyst(s)

Roy Pescador (8)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

		1000043 <i>-</i> 00 fR, Inc.	01			L	ler ID		1000043	]		l: 07-Apr-10 : 24 Hour	
Addres	ss: 11 Su Du	East Superite 260 lluth, MN 55			S	ample ID: Location:		33110			Results Due Thursday, April 08, 2010 10:34 AM		
rioje			cted 03/31/1	0				<u>s</u>	pecial Instruc	tions			
			NSD = No Si	tructures i	Detected	Structure	Types: { F	= = Fibe	er, B = Bundle,	C = Cluster	, M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH     ≥ 5 µ	WIDTH mu	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	66	NP								FBCM			
	GI	ND								FBCM			
	GIO	ND								FBCM			
2	26	ND								FBCM			
	E8	ND								FBCM			
	END	ND								FBCM			
										FBCM			
										FBCM			
										FBCM		***	
										FBCM			
										FBCM			
				<del></del>	**************************************					FBCM			
			\mathref{n}							FBCM			
				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						FBCM			
										FBCM		<u> </u>	
										FBCM			
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										FBCM			
(Tota	1)								The second secon	Alter Manner	me legiciam in the contraction		
Asbe	estos F	ibers Prese	nt		Nonasbe	stos Fiber	s Preser	nt	Filter Type: M	CE	. alikiki sali	TEM Voltage (kv): 100	
A	Chryson Inthopol Imosite Crocido	hyllite e			(2) (3) (3)	Gypsum Glass Cellulose Organic Fi	bers		Filter Size (mr EFA (sq.mm): Filter Pore Size	n): <u>25</u> 385 e (micron): <u>0</u>	M Grid .45 G	Agnification (X): 19K Opening Area: mm² GO Required:	
Т	Actinolite Tremolite					(5) Fibers Containing  Grid Box # 270° EAN Filter Accepted for Ar If no, reason for reject				<u> 2าเ0- ะผหิ-</u> ted for Ana	MR-13 Row M Column 1.2 Analysis: Yes No		
Analys	t R	. PESCADO	R		Scope	27-2		Date	4/15/10				

		71000043-00 MR, Inc.	002				der ID		000043	]		: 07-Apr-10 24 Hour	
	Si D	1 East Super uite 260 uluth, MN 55			S	ample ID Location		33110			Results Due Thursday, April 08, 2010 10:34 AM		
Proje		329-001 amples colle	cted 03/31/1	0				<u>Sr</u>	ecial Instruc	tions			
			NSD = No Si	ructures	Detected	Structure	Types: { F	= Fibe	r, B = Bundle,	C = Cluster	, M = Matrix }		
Grid I.D.	G.O		Non Asbestos	OBSER	ED RVATION Amphi	Sketch	≥ 0.5 µm	NGTH     ≥ 5 μι	WIDTH m µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
	Heb	NO								FBCM			
	116	Np								FBCM			
	H89	NP								FBCM			
	HID	ND								FBCM		,	
2	26	ND								FBCM			
	83	NP								FBCM		- 7.21	
	610	ND								FBCM			
	Ť									FBCM			
										FBCM			
							1			FBCM			
										FBCM			
										FBCM			
			100							FBCM			
			W.							FBCM			
			~				1			FBCM			
										FBCM			
									1	FBCM			
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(Tota	al)				estanten i verse G	9 % +11				17.44		nggayn na	
Asbe	estos	Fibers Prese	nt	***************************************	Nonasbe	stos Fibe	rs Preser	nt F	Filter Type: M	CE	1. 184 J 1. J.	TEM Voltage (kv): 100	
I —	Chryso				_	Gypsum		F		n): <u>25</u>		lagnification (X): 19K	
	-	hyllite			= '	Glass		E	EFA (sq.mm):	385	 _ Grid	Opening Area: mm²	
L	Amosit Crocid				= '	Cellulose Organic F	ibore		ilter Pore Size	e (micron): 0		O Required: 7	
1 🖃	Actinol				_	Fibers Co		<u> </u>	Sample Vo	· · · ·	<u>986</u>	GO Analyzed: 7	
	Γremol								Grid Box # Filter Accep	ted for Ana	lysis: Z	Yes No	
<u> </u>		D Decidos	υΩ			77-7			If no, reasor	for rejection	on:		
Analys	st	R. PESCADO	K		Scope	27-2		Date	4/15/10				

		1000043-00 IR, Inc.	03				ier ID		000043			l: 07-Apr-10 : 24 Hour	
	Su Du	East Super ite 260 luth, MN 55			S	Sample ID: Location:		33110			<u>Re</u> Thursday	esults <u>Due</u> v. April 08, 2010 0:34 AM	
Floje		29-001 imples colle	cted 03/31/1	0				<u>Sr</u>	oecial Instruc	tions			
			NSD = No S	tructures	Detected	Structure	Types: { F	= Fibe	r, B = Bundle,	C = Cluster	, M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D EVATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	<b>NGTH</b> 2 5 μι	WIDTH m µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc	<b>)</b> .
li	26	NP								FBCM			
	E8	No								FBCM			
	EID	No								FBCM			
2	٤٢	NO								FBCM			
	ε3	ND								FBCM			
	٤١	NO								FBCM	,		
										FBCM			
									1	FBCM			
										FBCM			
										FBCM			
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				~	2					FBCM			
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(Tota	ıl)								source transport	. Age et a	77 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in Separa :	-4:
Asbe	estos F	ibers Prese	nt		Nonasbe	stos Fiber	s Preser	nt F	ilter Type: M	CE	. 25.00 \$	TEM Voltage (kv): 100	,
	Chrysot	ile			(1)	Gypsum				n): 25		Magnification (X): 19K	
1 —	nthop	*			= ` ´	Glass		E	EFA (sq.mm) <u>:</u>	385	Grid	Opening Area: mm²	
	mosite				=	Cellulose		F	ilter Pore Siz	e (micron): 0	.45 G	O Required:	
	crocido ctinolit					Organic Fi Fibers Coi			Sample Vo	lume (L):	<u>1011</u>	GO Analyzed:	
	remoli			į	— (a)				Grid Box # Filter Accep	ted for Ana	lysis: 🖊	w <u>M</u> Column ป Yes No	6
	_		-						If no, reasor		on:		
Analys	st	R. FESCAD	OR		Scope	27-2		Date	1/5/10	<u> </u>			

				CI	IX I AII	, 103 Ap	репил	AW	Subpart	Ľ			
		1000043-00 IR, Inc.	004			Ord	ler ID	271	000043			: 07-Apr-10	
Addres	s: 11 Sui Du	East Super ite 260 luth, MN 55 29-001		10	S	ample ID: Location:			pecial Instruc	tions	<u>Re</u> Thursday	24 Hour sults Due /, April 08, 2010 0:34 AM	
		·	NSD = No S			Structure	T				, M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	LEN ≥ 0.5 µm < 5 µm	NGTH    ≥5µ	WIDTH m µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	Cs.	ND	7.0000.00	Omys	Ampin	CKOLOT	чо дин	≥3 µ	μ μ	FBCM	Number	Onlys.,Amo., Etc.	_
	cg	ND								FBCM	-		_
	Cvo	NO								FBCM		, ne	
2	F5	ND								FBCM			_
	F3	NO								FBCM			_
	Fi	No								FBCM			_
										FBCM			_
										FBCM			_
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										FBCM			
				Sm						FBCM	:		
			/		<i>41.</i>					FBCM			
					Zlo					FBCM			
										FBCM			
										FBCM			
										FBCM			
(Total	)										reas.		
l .—	stos F	ibers Prese ile	nt			stos Fiber Gypsum	s Preser		Filter Type: M			TEM Voltage (kv): 100 lagnification (X): 19K	

Analyst \_

AHERA7.9.0

R. PESCADOR

Anthophyllite

Amosite

Crocidolite

Actinolite

Tremolite

Grid Opening Area: mm²

GO Analyzed:

.Column <u>ルン</u>

GO Required:

Row \_√

✓ Yes

1000

Date

EFA (sq.mm): 385

4/15/10

Filter Pore Size (micron): 0.45

Grid Box # 2710- 8412-13

Filter Accepted for Analysis:

If no, reason for rejection:

Sample Volume (L):

(2) Glass

Scope

(3) Cellulose

(4) Organic Fibers

(5) Fibers Containing

27-2

		1000043 <i>-</i> 00 IR, Inc.	05			Ore	der ID	271	1000043	]		i: 07-Apr-10 : 24 Hour
Addres	ss: 11 Su Du	East Superite 260 luth, MN 55			S	ample ID Location		33110			<u>Re</u> Thursday	esults Due v. April 08, 2010
Pioje			cted 03/31/1	0				<u>S1</u>	pecial Instruc	tions		
			NSD = No S	tructures i	Detected	Structure	Types: { F	= Fibe	er, B = Bundle,	C = Cluster	, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	≥ 0.5 µm	NGTH    ≥5µ	<b>WIDTH</b> Im µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	64	ND								FBCM		
	66	ND								FBCM		
	G8	ND								FBCM		
	GIØ	20								FBCM		
2	FE	ND								FBCM		
	F7	ND								FBCM		
	Fg	ND								FBCM		
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(Tota	1)								Backson - cores.	118275 - 11	in Workers	
Asbe	estos F	ibers Prese	nt	<u>                                      </u>	Nonasbe	stos Fibe	rs Preser	nt i	Filter <b>T</b> ype: M	CE	endinter	TEM Voltage (kv): 100
	Chrysot Inthoph Imosite Crocido Inctinolit	nyllite lite			(2) (3) (4) (4) (4)	Gypsum Glass Cellulose Organic F Fibers Co	ibers	l F	Filter Size (mn EFA (sq.mm): Filter Pore Size Sample Vo	n): <u>25</u> 385 e (micron): <u>0</u> lume (L):	Grid .45 G	Agnification (X): 19K Opening Area: mm² b.013 GO Required: 7 GO Analyzed: 7
Т	remolit	e	10.0						Grid Box # Filter Accep If no, reasor	ted for Ana	lysis:	w <u>N</u> Column <u>3,4</u> Yes  No
Analys	t R	PESCAD	מזט		Scone	27-2		Date	4/15/10			

		1000043 <i>-</i> 00 IR, Inc.	06		<u>Order ID</u> 271000043						Received: 07-Apr-10		
	s: 11 Su	East Superite 260 Luth, MN 55			S	ample ID:		W-0331	10		TAT: 24 Hour  Results Due  Thursday, April 08, 2010		
Proje		29-001 mples colle	cted 03/31/1	0				<u>Spe</u>	cial Instruc	tions	1	0:34 AM	
			NSD = No S	tructures	Detected	Structure	Types: { F	= = Fiber,	B = Bundle	C = Cluster	, M = Matrix }		
Grid I.D.	G.O.	Structure Number	Non Asbestos	OBSER	D RVATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH     ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
,	77	ND		J,5			<u> </u>	2 0 μπ		FBCM	Humber		
	C9	NO		<del></del>						FBCM			
2	BI	ND								FBCM			
	BIO	No					<u> </u>			FBCM			
										FBCM			
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									1	FBCM			
									<del></del>	FBCM		- 10	
										FBCM		v	
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				A.				724.32		FBCM			
				N. XXV						FBCM			
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(Tota	i)				1,000 (1991) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				a Sanjaggia			*	
		bers Prese	nt	BROWN IN SUADL	Nonasbe	stos Fiber	s Preser	l It Fil	ter Type: M	CE	(2)	TEM Voltage (kv): 100	
	hrysot	ile			(1)	Gypsum		1	ter Size (mn			agnification (X): 19K	
	nthoph	-			= :	Glass		EF	A (sq.mm):	385		Opening Area: mm <sup>2</sup> 015	
	mosite				= `	Cellulose	<b>.</b>	Fil	ter Pore Size	e (micron): 0	_	O Required: 74 /4/19	
	rocido ctinolit				(5) Fibers Containing						<u>2280</u>	GO Analyzed: 4	
	remolit							Fi	ilter Accept	Z710-EMP	ysis:	v _N Column <u>√√</u> Yes	
		DACCADO	1		_	#=7 A				for rejection	on:		
Analys	t <u></u>	PESCAPOR			Scope	27-2		Date	4/15/10				

		1000043-00 IR, Inc.	07				der ID	]	Received: 07-Apr-10 TAT: 24 Hour				
	Su Du	East Super ite 260 luth, MN 55			S	Sample ID: Location:		E-0331	110		<u>Results Due</u> <u>Thursday, April 08, 2010</u> 10:34 AM		
Proje		29-001 mples colle	cted 03/31/1	0				<u>Sı</u>	pecial Instruc	tions			
			NSD = No S	tructures	Detected	Structure	Types: { I	F = Fibe	er, B = Bundle,	C = Cluste	r, M = Matrix }		
Grid I.D.	G.O.	Structure Number	Non Asbestos	OBSER	ED RVATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH    ≥5µ	WIDTH Im µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
7	c4	NO								FBCM			
	cz	NP					7			FBCM			
2	cs	No								FBCM			
	<i>C</i> 3	No							<del>- \</del>	FBCM			
										FBCM			
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Asbe	stos F	ibers Prese	nt		Nonasbe	stos Fiber	s Preser	nt F	Filter Type: M	CE	e des la constitución de la cons	TEM Voltage (kv): 100	
	hrysot				_	Gypsum			Filter Size (mn	n): <u>25</u>		lagnification (X): 19K	
	nthoph mosite	•			=	Glass		E	EFA (sq.mm) <u>:</u>	385		Opening Area: mm² 0,03	
	rocido				= ` `	Cellulose Organic Fi	ihers		Filter Pore Size		0.45 G	O Required: 4	
	ctinolit				(4) Organic Fibers  (5) Fibers Containing  Sample Volum						<u>2280</u>	GO Analyzed: 4	
🗆 т	remolit	e			Grid Box # 2710-EMP								
								- 1	If no, reason		-		
Analys	t _R.	pes call or			Scope	27-2		Date			<del></del>		

Client: EMR, Inc.  Address: 11 East Superior Street Suite 280 Duluth, MN 55802  Project: 9329-001 Samples collected 03/31/10    NSD = No Structures Detected   Structure Types: {F = Fiber, B = Bundle, C = Cluster, M = Metrix }			1000043-00	08		<u>Order ID</u> 271000043						Received: 07-Apr-10		
Continue						S	—— Sample ID	: CB-OPI	EN-0331	110	_	TAT: 24 Hour		
10:34 AM	Addres			or Street		_								
Project: 9329-001   Samples collected 03/31/10   Special Instructions		Du	luth, MN 55	802										
Samples collected 03/31/10   Special Instructions	Projec	~t∙ 02	20 001									1	0:34 AM	
NSD = No Structures Detected   Structure Types: {F = Fiber, B = Bundle, C = Cluster, M = Metrix }	rioje			cted 03/31/1	10				Spe	cial Instruc	tions			
Grid   G.O.   Structure   Non   Asbestos   Chrys   Amphi   Sketch   Sketch   Shetch   Shet									<u> </u>					
Grid   G.O.   Structure   Non   Asbestos   Chrys   Amphi   Sketch   Sketch   Shetch   Shet														
Grid   G.O.   Structure   Non   Asbestos   Chrys   Amphi   Sketch   < 5 μm   ≥ 5 μm   μm   Type   Negative   Number   Chrys.,Amo., Etc.     Fq   ND				NSD = No S	tructures	Detected	Structure	Types: { l	= Fiber,	B = Bundle,	C = Cluster	, M = Matrix }		
1.D.   1.D.   Number   Asbestos   Chrys   Amphi   Sketch   < 5 µm   ≥ 5 µm   µm   Negative   Chrys., Amo., Etc.	Crid		Ctructura	Non						WIDTH	1		EDXA	
Fq ND					1	1	Sketch	1	l .	μm	1 y pe		ChrvsAmo Etc.	
FT   ND		Fq	ND			<u> </u>			= 5		FBCM	- Trainisti	, , , , , , , , , , , , , , , , , , , ,	
F5 ND										<u> </u>	FBCM		VPIE-11	
FI   ND								†						
2 G2 KND (4) KD FBCM  G4 ND FBCM  G8 ND FBCM  G10 ND FBCM		FS	Ì								FBCM			
GH   ND		FI	ND								FBCM			
GH   ND	2	GZ	KNO GIA	<b>1</b> 10							FBCM			
GY   ND		GH	ND								FBCM			
G  ND		I	ND								FBCM			
FBCM											FBCM			
FBCM FBCM FBCM FBCM FBCM FBCM			ND								FBCM			
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FBCM											FBCM			
FBCM								/			FBCM			
(Total)	(Total	l)										Ch.	The second of th	
Asbestos Fibers Present Nonasbestos Fibers Present Filter Type: MCE TEM Voltage (kv): 100	Asbe	stos F	bers Preser	nt		Nonasbe	stos Fibe	rs Preser	t Fil	ter Type: M	CE		ΓΕΜ Voltage (kv): 100	
Chrysotile (1) Gypsum Filter Size (mm): 25 Magnification (X): 19K		•			ļ	(1) (	Gypsum		Fil	ter Size (mn	n): 25		agnification (X): 19K	
Anthophyllite (2) Glass EFA (sq.mm): 385 Grid Opening Area: mm² • .bi3		-	-		[	=			EF	A (sq.mm):	385	Grid	Opening Area: mm² 0.013	
Amosite     (3) Cellulose   Filter Pore Size (micron): 0.45   GO Required: 10					,	=			Fil	ter Pore Size	(micron): 0		· · · · · · · · · · · · · · · · · · ·	
I Sample Volume (L): GU Analyzed: 70					Î	(4) Organic Fibers Sample Volume (L):					ume (L):		GO Analyzed: 10	
Tremolite Grid Box # 2710 + EMC 13 Row O Column 3,4						(5) Fibers Containing  Grid Box # 2710 - 24						EMR-13 Row O Column 3,4		
Filter Accepted for Analysis: Yes No							· · · · · · · · · · · · · · · · · · ·					alysis: 🖊 Yes 🗌 No		
Analyst R, Peschon Scope 27-2 Date 4/15/16														

# **INTERNAL CHAIN OF CUSTODY**

4/1/2010 11:47:00 AM

Order ID: 271000033

Phone: (218) 625-2332

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-001

Samples collected 3/31/2010

Customer ID:

Customer PO:

Received:

04/01/10 11:15 AM

271000033

EMRI78

EMSL Order: EMSL Proj ID:

Cust COC ID

Test: TEM AHERA	<u>Matrix</u> Air	<u>TAT:</u> 24	Hour	Qty:	. 8
Acct Sts: BillingFrequency:	<u>Sisprsn:</u> rdemalo	Sample Condition:	nahoney  Acceptable Unacceptable comments	Date:	4/1/2010
$\square$ Exempt from prep char	ge				
$\square$ Exempt from lab openi	ng fee	Prepped:	N	Date: _	4/1/10
$\square$ Exempt from layer/aliq	uot charges	Analyzed:	IN	<u>Date:</u> _	4/2/10
		Data Entry:	RKM	Date: _	4/5/10
		Screened:		Date:	

Mailed:

#### **Internal Comment**

**Special Instructions** 

Order ID	Lab Sample #	Cust. Sample # Location	Due Date
271000033	271000033-0001	P-EH-033110 PAMAGED - NOT ARRESTED	4/2/2010 11:15:00 AM
271000033	271000033-0002	P-JH-033110	4/2/2010 11:15:00 AM
271000033	271000033-0003	P-CC-033110	4/2/2010 11:15:00 AM
271000033	271000033-0004	P-CP-033110	4/2/2010 11:15:00 AM
271000033	271000033-0005	P-AS-033110	4/2/2010 11:15:00 AM
271000033	271000033-0006	S-1339.3W033110	4/2/2010 11:15:00 AM
271000033	271000033-0007	S-1339.4E033110	4/2/2010 11:15:00 AM
271000033	271000033-0008	BK-033110	4/2/2010 11:15:00 AM

2710 - EMR-13 (0-F)

2710-EMR-ARC-13(C-D)

Date: \_



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000033

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

<del>*************************************</del>		•									
Company : EMR, Inc						ill to: ☐ Same ☐ Dif ferent note instructions in Co					
Street: 11 E. Superior	Street, Suite #	260		Third Party E	Billing re	quires written authorization	on from third party				
City: Duluth		State/P	rovince: MN	Zip/Postal Code	: 55802	Coun	try: USA				
Report To (Name): So	ott Carney			Fax #: (218) 625	5-2337						
Telephone #: (218) 62	25-2332 x 303			Email Address: carney@emr-inc.com							
Project Name/Number	: 9329-001										
Please Provide Resul	ts: 🔲 Fax	🛛 Email				. State Samples Take	en: Montana				
			around Time (TAT)				I D O Wools				
3 Hour 6 h		24 Hour	48 Hour	72 Hour		6 Hour 1 1 Week RA or EPA Level II TAT.					
an authorization for	m for this service.	Analysis (	completed in accordance	with EMSL's Terms	and Cond	ditions located in the Analy	tical Price Guide.				
PCM - Air			<u>TEM – Air</u> ☐ 4-4.			TEM- Dust					
☐ NIOSH 7400			AHERA 40 CFF	R, Part 763		☐ Microvac - ASTM	D 5755				
w/ OSHA 8hr. TWA			■ NIOSH 7402			☐ Wipe - ASTM D64	80				
PLM - Bulk (reporting	limit)		☐ EPA Level II			☐ Carpet Sonication	(EPA 600/J-93/167)				
☐ PLM EPA 600/R-93/			☐ ISO 10312			Soil/Rock/Vermiculite					
☐ PLM EPA NOB (<19	•		TEM - Bulk			☐ PLM CARB 435 - A (0.25% sensitivity)					
Point Count	-,		☐ TEM EPA NOB			☐ PLM CARB 435 - B (0.1% sensitivity)					
☐ <b>400</b> (<0.25%) ☐ 10	00 (<0.1%)		☐ NYS NOB 198.4	4 (non-friable-NY)		TEM CARB 435 - B (0.1% sensitivity)					
Point Count w/Gravime			☐ Chatfield SOP			☐ TEM CARB 435 -	C (0.01% sensitivity)				
<b>400</b> (<0.25%) <b>1</b> 0	00 (<0.1%)		☐ TEM Mass Ana	lysis-EPA 600 sec	. 2.5	☐ EPA Protocol (Se	mi-Quantitative)				
☐ NYS 198.1 (friable	-		TEM - Water: EPA	\ 100.2		☐ EPA Protocol (Qu	antitative)				
☐ NYS 198.6 NOB (n	•		Fibers >10µm		ing	Other:					
			All Fiber Sizes		-	П					
☐ NIOSH 9002 (<1%)	□ Cher	k For P	ositive Stop – Cle	early Identify Ho	omoge	nous Group					
		<u> </u>	Останования	1	<del></del> _						
Samplers Name: Mike	Mckay			Samplers Sign	ature:	Mike M					
Sample #			Sample Description	n		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled				
P-EH-033110	Eric Hofpar-	Machine (	Operator-MP-1340B	1-1338T	Aplilo	926	3-31-10 —				
P-JH-033110	John Hobbs-	Section I	Man-MP-1340B-133	8T		918	3-31-10				
P-CC-033110	Clinton Com	bs-Asst l	Foreman-MP-1340B	-1338T		912	3-31-10				
						040	3-31-10				
P-CP-033110	Carson Poor	e-Trackn	nan-MP-1340B-1338	BT	·	912	3-31-10				
P-AS-033110	Andrew Smit	th-Grinde	er-MP1340B-1338T			914	3-31-10				
S-1339.3 <b>W</b> 033110	MP1340B-13	38T West	tend			2170	3-31-10				
S-1339.4E033110	MP1340B-13	38T East	end			2170	3-31-10				
BK-033110	BK-Opened					0	3-31-10				
Client Sample # (s):	Mike Mck	ay	-			Total # of Samples:	8				
Relinquished (Client)	: Mike McK	ay	Date:	4-1-10		Time	e: 11:15				
Received (Lab):	R. K. 7	n ele	Date:	4/1//	0	Time	e: /// <i>5</i>				
Comments/Special In			7								
				<del></del>							

Control Designed Asharter COO DO 4400040



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P.EH.033110	Eric Hofpar-Machine Operator MP13408-1338T	926	3131110 07:57-15:40
	THE (104 par 1 receive operator for 15 to 8 1550)	120	3131110
B. 24-033110	John Hayes-Section Man-MP 1340B-1338T	વા 8	07:58-15:37
			3(31)10
P.CC-033110	Clinton Combs-Asst Foreman-MP1340B-1338T	912	08:00 15:36
		_	3131/10
P.CP-033110	Carson Poorc. Trackman. MP 13408-1338T	912	08:03-15:39
	_		3131/10
P.AS-033(10	Andrew Smith-Grinder. MP 1340B-1338T	914	08:05:65:42
			3(31(10
51339,3W033110	MP 1340B-1338T- vvestend	2170	08142-13:52
	ADDITAGE COOK	2170	313110
51339.4E033110	MP 1340 B- 1338T- Eastend	2(70	08:43-13:53
BK-033110	BK Opened	NA	3/31/10
		-	
74		V	
		****	
			***************************************
*Comments/Special	Instructions:		



#### EMSL Analytical, Inc.

107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID: Customer PO: EMRI78

11 East Superior Street

Received:

04/01/10 11:15 AM

Suite 260

EMSL Order:

271000033

**Duluth, MN 55802** 

Fax: (218) 625-2337 Phone: (218) 625-2332

EMSL Proj:

Project: 9329-001

Samples collected 3/31/2010

Analysis Date:

4/2/2010

Sampling Date:

3/31/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structur ≥ 0.5µ < 5µ	es ≥5µ	Analytical Sensitivity (S/cc)	Asbe Concen (S/m m²)	<del>-</del>
P-EH-033110 271000033-0001		926.00			Filter Dam		·			
P-JH-033110 271000033-0002		918.00	0.0910		None Dete	cted		0.0046	<11.00	<0.0046
P-CC-033110 271000033-0003		912.00	0.0910		None Dete	cted		0.0046	<11.00	<0.0046
P-CP-033110 271000033-0004		912.00	0.0910		None Dete	cted		0.0046	<11.00	<0.0046
P-AS-033110 271000033-0005		914.00	0.0910		None Dete	cted		0.0046	<11.00	<0.0046
S- 1339.3W033110 271000033-0006		2170.00	0.0520		None Dete	cted		0.0034	<19.00	<0.0034
S-1339.4E033110 271000033-0007		2170.00	0.0520		None Dete	cted		0.0034	<19.00	<0.0034
BK-033110 271000033-0008			0.1300		None Dete	cted		<u> </u>	<7.70	-

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Lab ID: 271000033-0001 271000033 Order ID Received: 01-Apr-10 Client: EMR, Inc. TAT: 24 Hour Sample ID: P-EH-033110 Address: 11 East Superior Street Results Due Location: Suite 260 Duluth, MN 55802 Friday, April 02, 2010 11:15 AM Project: 9329-001 Samples collected 3/31/2010 Special Instructions

			NSD = No Si	ructures L	Detected	Structure	_		r, B = Bundle,	C = Cluster,	M = Matrix }	
Grid	G.O.	Structure	Non	1 1	VATION		≥ 0.5 µm	IGTH	WIDTH	Structure Type	SAED Negative	EDXA
I.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥ 5 µı	n µm		Number	Chrys.,Amo., Etc
			-							FBCM		
									<del></del>	FBCM		
									<u> </u>	FBCM		
						[ 				FBCM		
									_	FBCM		·
	_				, <del></del>					FBCM		
				\ <u></u>	E.	-				FBCM		
			, 1	- Sa	~\ <u>\</u>					FBCM		
				0	2		-			FBCM		
				18	<u> </u>					FBCM		
				20	3 <sub>6</sub>					FBCM		
										FBCM		
		:		A TAIL	4					FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
	Ĭ		-							<b>ЕВСМ</b>		
(Total	,								3	(2.9%)	. which	i gariff areas
Asbe	stos Fil	bers Presei	nt	١	lonasbe	stos Fibers	s Presen	t F	ilter Type: M	CE	atanooliskosta, k. saite	EM Voltage (kv): 100
	nrysotil					Gypsum			ilter Size (mm			gnification (X): 19K
	nthophy	yllite			(2)			ļ	FA (sq.mm):	385	<del></del>	pening Area: mm²
	nosite ocidoli	4			= ::	Cellulose		F	ilter Pore Size	(micron): 0.		Required:
	tinolite					Organic Fil Fibers Con			Sample Vol	ume (L):	<u>926</u>	GO Analyzed:
	Tremolite (5) Tibers						itaniniy					
									Filter Accept f no, reason			′es No

		1000033-00 IR, Inc.	002			<u>Ora</u>	ler ID	271		Received: 01-Apr-10 TAT: 24 Hour		
	ss: 11 Su	East Super ite 260 luth, MN 55			S	Sample ID: Location:		33110		_	<u>Results Due</u> Friday, April 02, 2010	
Proje	ect: 93 Sa		cted 3/31/20	010				<u>S</u> 1	pecial Instruc	tions	1	1:15 AM
	_		NSD = No S	tructures l	Detected	Structure	Types: { l	F = Fibe	er, B = Bundle,	C = Cluster	, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	<b>LE</b> N ≥ 0.5 μm < 5 μm	NGTH 25 µ	WIDTH Im µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	Hz	VID								FBCM		
	144	ND								FBCM		
	H6	ND								FBCM		
	#8	ND								FBCM		
2	HS	M								FBCM		
	H7	NÐ								FBCM	-	
	H9	ND								FBCM		
										FBCM		
										FBCM	- 18%	
										FBCM		
										FBCM		
										FBCM		
				X	9					FBCM		
				1	Z/z	ł,				FBCM		
		•								FBCM		
										FBCM	<del></del>	
										FBCM		
			1111					1		FBCM		
(Tota	ıl)				Switzen oz					v 1838 2.5	 	
Asbe	estos F	bers Prese	nt	<u>Bersonder Samedelise</u> I	Nonasbe	stos Fiber	s Preser	nt i	Filter Type: M	CE	e o solieditaliteiro se servendad	TEM Voltage (kv): 100
A A C	Chrysot anthoph amosite Crocidol actinolit	yllite ite			(2) (3) (4) (4) (4)	Gypsum Glass Cellulose Organic Fi			Filter Size (mn EFA (sq.mm): Filter Pore Size Sample Vo	n): 25 385 e (micron): 0	M	lagnification (X): 19K Opening Area: mm² O Required: 7  GO Analyzed: 7
Т	remolit	e			Grid Box # Zno-EMR-/ Filter Accepted for Analy If no, reason for rejection						ysis:	Yes No
Analys	st <u>æ. /</u>	ES UAPOR			Scope	27.2		Date	4/2/10			

		1000033-00	03			<u>Or</u>	der ID	271	000033		Received	i: 01-Apr-10	
		IR, Inc.	ios Chaod		S	ـــــا Sample ID	): P-CC-0	33110		_	TAT: 24 Hour		
	Su Du	East Super ite 260 lluth, MN 55				Location					<u>Results Due</u> <u>Friday, April 02, 2010</u> 11:15 AM		
Proje		29-001 Imples colle	cted 3/31/20	010				<u>Sp</u>	ecial Instruc	tions			
			NSD = No S	tructures i	Detected	Structure	Types: { I	F = Fibe	r. B = Bundle	. C = Cluster	; M = Matrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	<b>LEI</b> ≥ 0.5 µm	NGTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	H2	ND								FBCM			
	H4	ND								FBCM			
	H6	No								FBCM			
	Hg	ND								FBCM			
2	As	ND								FBCM			
	A3	ND								FBCM			٠
	Ai	NP								FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM			
		i.								FBCM			
					2					FBCM			
					9- 14/10					FBCM			
										FBCM		, <u></u>	
										FBCM			
										FBCM			
								/		FBCM			-
(Tota	il)								<b>X</b> 205300 1 - 155	Legin saggner ser Legin			V.
Asbe	estos F	ibers Prese	nt		Nonasbe	stos Fibe	rs Preser	nt F	ilter Type: M	ICE		TEM Voltage (kv): 100	and Long
	Chrysot anthoph amosite Crocido actinolit Tremolit	nyllite e lite e			(2) (3) (4) (4)	Gypsum Glass Cellulose Organic F Fibers Co	ibers	F	ilter Size (mr FA (sq.mm): ilter Pore Size Sample Vo Grid Box # 2 Filter Accep	385 e (micron): 0 lume (L): 27/0-EMIX ted for Anal	Grid  .45 G  912  -/3 Rov lysis:	Alagnification (X): 19K Opening Area: mim <sup>2</sup> OO Required: 7 GO Analyzed: 7 W Column 3.5 Yes No	
<u> </u>	. 0	Ozs (AY)	1.			クツ- つ			f no, reason	for rejection	on:	PATE TO THE TO THE PATE TO THE TO THE TO THE PATE TO THE T	_
Analys	it <u>~~</u>	Prscapor			Scope	27-2		Date	4/2/10				

		1000033-00 IR, Inc.	04		<u>Order ID</u> 271000033							Received: 01-Apr-10		
		East Super	ior Street		s	ے ample	ID:	P-CP-03	33110		, –	TAT:	24 Hour	
	Su Du	ite 260 luth, MN 55				Locat					į	<u>Results Due</u> <u>Friday, April 02, 2010</u> 11:15 AM		
i ioje			cted 3/31/20	10					<u>Spe</u>	ecial Instruc	tions			
			NSD = No St	ructures L	Detected	Struct	ture T	ypes: { F	= Fiber,	B = Bundle,	C = Cluster	M = Matrix }	***	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1	D VATION Amphi	Sket			GTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
,	66	ND									FBCM			
	G8	ND									FBCM		-	
	610	NO									FBCM		3	
2	F7	ND									FBCM		***	
	F5	ND									FBCM			
	F3	ND									FBCM			
	FI	ND									FBCM			
											FBCM			
											FBCM			
											FBCM			
			-								FBCM			
											FBCM			
			N.								FBCM			
				12/10							FBCM			
									'		FBCM			
									*****		FBCM			
								27.1.2			FBCM			
					ï						FBCM			
(Tota	l)				1965 - 1965 1965 - 1965 1965 - 1965						ermere, sugar syr	en die Marian in die 19		
Asbe	stos F	bers Prese	nt	1	Vonasbe	stos Fi	ibers	Presen	t Fil	ter Type: M	CE		TEM Voltage (kv): 100	
☐ A ☐ C ☐ A	hrysoti nthoph mosite rocidol ctinolit remolit	nyllite iite e			(2) (3) (4) (4) (4)	(1) Gypsum   Filter Size (mm): 25     (2) Glass   EFA (sq.mm): 385     (3) Cellulose   Filter Pore Size (mic Sample Volume     (5) Fibers Containing   Grid Box # 2110     Filter Accepted for					385 e (micron): 0. tume (L): 2710-24/K-	M Grid ( 45 G 912  /2 Row ysis:	agnification (X): 19K b\ 0)3 Opening Area: mm² O Required: 7 GO Analyzed: 7 V D Column S.6	
Analys	If no, reason for rejection:  Scope 27-2 Date 4/2/b													

		1000033-00	005				der ID		1000033	1	Received	d: 01-Apr-10
Clien	ıt: EN	IR, Inc.			c					J		: 24 Hour
Addres		East Super	rior Street		5	Sample ID:		33110		Γ	·····	esults Due
		ite 260 lluth, MN 55	<b>3802</b>			Location:						April 02, 2010
		, war,	002									11:15 AM
Proje	ct: 93	29-001								<u> </u>	-	1.10 / 1.11
			ected 3/31/20	<b>)10</b>				Sı	pecial Instruc	tions		
										L		
			NSD = No Si	tructures	Detected	Structure	Types: { F	F = Fibe	er, B = Bundle,	, C = Cluster,	M = Matrix }	
Ţ.,					ED EVATION			NGTH	WIDTH	Structure	SAED	EDXA
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	1	Amphi	Sketch	≥ 0.5 µm < 5 µm		um	Туре	Negative	Chara Ama Eta
1.0.	+	<del> </del>	Aspesios	Cinys	Ampin	SKEIGH	< 5 μιιι	≥5 µ	ım µm	5504	Number	Chrys.,Amo., Etc.
μ_	G4	ND	<del> </del>	-	<del>                                     </del>	<u> </u>	<u> </u>	├		FBCM		
<u> </u>	66	ND	<del>                                     </del>		<u> </u>	<u> </u>	<u> </u>			FBCM		
	G8	ND	<u> </u>							FBCM		
	610	ND				<u> </u>	['			FBCM		
2	<b>C</b> 5	ND		Γ						FBCM		
	C3	ND								FBCM		
	CI	ND								FBCM		
1										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
				XII.						FBCM		
	<u> </u>			(/×	10					FBCM		
	<u> </u>									FBCM		
	<u> </u>				<u> </u>			<u> </u>		FBCM		
	<u> </u> '	<u> </u>			<u> </u>			<u> </u>		FBCM		
ļ 								<u> </u>		FBCM		
(Tota	.l)			Kaluar manada sa								
Asbe	stos F	ibers Prese	nt		Nonasbe	stos Fiber	s Presen	nt F	Filter Type: M	CE	-	TEM Voltage (kv): 100
c	Chrysoti	ile			(1) (	Gypsum		,	— Filter Size (mm	n): 25	<del></del>	Magnification (X): 19K
	nthoph	ıyllite			(2) (	Glass		- 1	EFA (sq.mm):			Opening Area: mm²
<u> </u>	mosite			1	(3) (	Cellulose		- 1	Filter Pore Size		-	O Required: 7
	Crocidol	iite			(4)	Organic Fil	bers	1.	0.000	3 (IIIIOIOII) <del></del>	73	

Actinolite

Tremolite

Analyst R. PESCA DOR

Date

(5) Fibers Containing

Scope <u>27-2</u>

Sample Volume (L):

Grid Box # 27/0-EAR- 13

If no, reason for rejection:

Filter Accepted for Analysis:

914

Row £

Yes

GO Analyzed: 7

.Column //2

		1000033-00	06			Oro	ler ID	271	000033			: 01-Apr-10
	ss: 11 Su	IR, Inc. East Super ite 260 luth, MN 55			S	Sample ID:		.3W033	3110	, 	<u>Re</u> Friday,	24 Hour esults Due April 02, 2010
Proje		29-001 mples colle	cted 3/31/20	010				<u>Sr</u>	oecial Instruc	tions	1	1:15 AM
			NSD = No S	tructures i	Detected	Structure	Types: { f	= Fibe	r, B = Bundle,	C = Cluster,	M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D RVATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH     ≥ 5 μι	WIDTH m µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	Dr	ND								FBCM		
	דע	ND								FBCM		
2	16	ND								FBCM		
	IX	ND								FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
	-									FBCM		
			$\rightarrow$	<b>6</b> 2 ,						FBCM		
			00	12/0						FBCM		
										FBCM		
										FBCM		
										FBCM		
							-			FBCM		
										FBCM		**************************************
(Tota	1)							<u> </u>			ukumunatin	
<u> </u>		ibers Prese	nt	. Mariati da da aran da	Nonasbe	stos Fiber	s Preser	l nt F	ilter Type: M	CE	till Allid i samma annihan sadd	ΓΕΜ Voltage (kv): 100
☐ A ☐ A ☐ C	hrysot nthoph mosite	yllite lite			(2) (3) (3)	Gypsum Glass Cellulose Organic Fi	bers	F	Filter Size (mn EFA (sq.mm): Tilter Pore Size Sample Vo	n): <u>25</u> 385 e (micron): <u>0</u> .	M Grid	lagnification (X): 19K  Opening Area: mm²  O Required: 4  GO Analyzed: 4
Τ	ctinolit					Fibers Cor			Grid Box # Filter Accept	2710-EMR	r/\$ Rov	
Anaiys	( <u>* 1 / /</u>	200.100			Scope	27-2		Date	4/2/10	<del></del>		2

Address: 11			1000033-00 IR, Inc.	07		_		der ID		1000033	]		l: 01-Apr-10 : 24 Hour
NSD = No Structures Detected   Structure Types: {F = Fiber, B = Bundle, C = Cluster, M = Matrix }   EDXA		Su Du	ite 260 luth, MN 55			S	•		. <b>4</b> E033	3110		<u>Re</u> Friday,	esults Due April 02, 2010
Grid   G.O.   Structure   Non   OBSERVATION   Chrys   Amphi   Sketch   < 5 µm   25 µm   µm   Type   Number   Number	1 10,0												
Grid   G.O.   Structure   Asbestos   Chrys   Amphi   Sketch   S.p.m.   2.5 μm   μm   Type   Negative   Number   Chrys.,Amo., Etc.		_		NSD = No S			Structure	Types: { F	= Fibe	er, B = Bundle,	C = Cluste	r, M = Matrix }	
DS ADD					OBSER	VATION	Sketch	≥ 0.5 µm	1		1	Negative	
D3 N0	1	22	ND								FBCM		
FBCM		<i>J</i> 3									FBCM		···· <u>···</u>
FBCM	2	Get								-	FBCM		
FBCM   FBCM		<del>                                     </del>											
FBCM   FBCM											FBCM		
FBCM   FBCM										*****	FBCM		<u></u>
FBCM   FBCM											FBCM		
FBCM   FILTER Size (mm): 25											FBCM		· · · · · · · · · · · · · · · · · · ·
FBCM   FBCM											FBCM		
FBCM   FBCM											FBCM		
FBCM   FBCM											FBCM		
FBCM   FBCM				XI.	7						FBCM		
FBCM   FBCM				10	16/						FBCM		
FBCM   FBCM											FBCM		
Total   FBCM   FBCM				•							FBCM		
Total   FBCM   FBCM   TEM Voltage (kv): 100										7.0	FBCM		
Asbestos Fibers Present  Chrysotile Anthophyllite Amosite Crocidolite Actinolite Tremolite  Nonasbestos Fibers Present I (1) Gypsum I (1) Gypsum I (2) Glass I (3) Cellulose I (4) Organic Fibers I (5) Fibers Containing I (5) Fibers Containing  Filter Type: MCE Filter Type: MCE TEM Voltage (kv): 100 Filter Size (mm): 25 Magnification (X): 19K  EFA (sq.mm): 385 Filter Pore Size (micron): 0.45 Sample Volume (L): 2170 GO Analyzed: 4  Grid Box # 2710 - 2410 - 13 Filter Accepted for Analysis: Filter Accepted for Analysis: Filter Accepted for Prejection:											FBCM		
Asbestos Fibers Present  Chrysotile  Anthophyllite  Amosite  Crocidolite  Actinolite  Tremolite  Nonasbestos Fibers Present  (1) Gypsum  (1) Gypsum  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  Grid Box # 2710 - 2416-13  Filter Type: MCE  TEM Voltage (kv): 100  Filter Size (mm): 25  Magnification (X): 19K  EFA (sq.mm): 385  Grid Opening Area: mm²  Filter Pore Size (micron): 0.45  Sample Volume (L): 2170  GO Analyzed: 4  Grid Box # 2710 - 2416-13  Filter Accepted for Analysis: Yes No  If no, reason for rejection:											FBCM		
Chrysotile  Anthophyllite  Annosite  Crocidolite  Actinolite  Tremolite   (1) Gypsum  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  (5) Fibers Containing  (1) Gypsum  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  (5) Fibers Containing  (6) Fibers Containing  (7) Go Analyzed:   (8) Filter Accepted for Analysis:   (9) Analyzed:   (1) Gypsum  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  (6) Filter Accepted for Analysis:   (7) Yes No  (8) If no, reason for rejection:	(Tota	I)											
Chrysotile  Anthophyllite  Anthophyllite  Crocidolite  Crocidolite  Tremolite  Tremolite  (1) Gypsum  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  (5) Fibers Containing  Filter Size (mm): 25  Magnification (X): 19K  EFA (sq.mm): 385  Grid Opening Area: mm²  Filter Pore Size (micron): 0.45  Sample Volume (L): 2170  GO Analyzed: 4  Grid Box # 2710 - 2416-13  Row	Asbe	stos F	bers Preser	nt		Nonasbe	stos Fiber	s Presen	nt F	Filter Type: M	CE	and the thin its only some storic will	TEM Voltage (kv): 100
Anthophyllite  Amosite  Crocidolite  Actinolite  Tremolite  (2) Glass  (3) Cellulose  (4) Organic Fibers  (5) Fibers Containing  (5) Fibers Containing  Grid Opening Area: mm² D/3  Filter Pore Size (micron): 0.45  Sample Volume (L): 2170  GO Analyzed: 4  Grid Box # 2710 - EMR - 13  Filter Accepted for Analysis: Yes No  If no, reason for rejection:	I —	-				(1)	Gypsum		F	— ilter Size (mm	n): 25		
Crocidolite   (4) Organic Fibers   (5) Fibers Containing   (5) Fibers Containing   Filter Pore Size (micron): 0.45   GO Required: \( \frac{1}{2} \)   GO Analyzed: \( \frac{1}{2} \)   Filter Accepted for Analysis: \( \frac{1}{2} \)   Yes \( \frac{1}{2} \) No   If no, reason for rejection:			•			= ' '			E	FA (sq.mm):	385	Grid	Opening Area: mm <sup>2</sup> 013
Sample Volume (L): 2170 GO Analyzed: 4  Grid Box # 2710 - EMR-13 Row E Column 5, 6  Filter Accepted for Analysis: Yes No  If no, reason for rejection:						=			F	ilter Pore Size	e (micron): 0		O Required:
Grid Box # 2710 - EMR-13 Row E Column 5, 6 Filter Accepted for Analysis: Yes No If no, reason for rejection:	i <u></u>					= ' '	_			Sample Vol	ume (L):	2170	GO Analyzed: 4
If no, reason for rejection:							iners Cor			Filter Accept	ed for Ana	lysis:	
		- 2 4	and and								for rejection	on:	

		1000033-00	08		<u>Order ID</u> 271000033							Received: 01-Apr-10		
		IR, Inc.			S	—∟ Sample II	D: BK-033	110		_		24 Hour		
Addres	s: 11 Su	East Superi ite 260	or Street		_	Location					Re	esults Due		
		luth, MN 55	802								Friday,	April 02, 2010		
										ŀ	1	11:15 AM		
Proje		29-001	cted 3/31/20	110							- "- 			
	- Ou	mpies cone	0100 0/0 1/20	710				<u>Spe</u>	cial Instruc	<u>tions</u>				
	NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }													
				E	D			IGTH	WIDTH	Structure	SAED	EDXA		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos		VATION Amphi	Sketch	≥ 0.5 µm < 5 µm	   ≥ 5 µm		Туре	Negative Number	Chrys.,Amo., Etc.		
j	Fg	ND								FBCM				
	F7	ND								FBCM				
	Ŧ5	ND								FBCM				
	F3	ND								FBCM				
	<b>F</b> 1	ND								FBCM				
2	PIO	ND								FBCM				
	Dy	2								FBCM				
	$\mathcal{V}_{\omega}$	ND								FBCM				
	D4	ND	:		, i					FBCM		4		
	DZ	NP							· ·	FBCM				
1			-							FBCM				
						***				FBCM				
										FBCM				
						-				FBCM				
			N.	2						FBCM		2		
				ZZ/s						FBCM	-			
										FBCM	***			
						_				FBCM				
(Total	)			77 T T T T T T T T T T T T T T T T T T						yar exem Lag San	17 17 18			
Asbe	stos Fi	bers Preser	nt	1	Vonasbe	stos Fibe	rs Presen	t Filt	er Type: M	CE	in disposition bear in in it is a section	ΓΕΜ Voltage (kv): 100		
C	hrysoti	le			(1) (	Sypsum		Filt	er Size (mm	n): 25		lagnification (X): 19K		
Anthophyllite (2) Glass									Opening Area: mm²					
	nosite				(3) (	Cellulose			-	(micron): 0.		O Required: /p		
	rocidol				_	Organic F		i	Sample Vol	-		GO Analyzed: 1D		
	ctinolite emolite				∐ (5) F	ibers Co	ntaining	<u> </u>		TID-EMR-1	3 Rov			
·''	GITIOIIL	5						Fi	lter Accept	ed for Anal	ysis:	Yes No		
	- 71	1								for rejectio	n:			
Analyet	R. I	ESCH DOI	1		Scope	4/2/10	,	Date	2/2/10					



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000047

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc		EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**					
Street: 11 E. Superior Street, Suite #260			requires written authoriza				
City: Duluth State/	Province: MN	Zip/Postal Code: 558		untry: USA			
Report To (Name): Scott Carney		Fax #: (218) 625-233		muy. OSA			
Telephone #: (218) 625-2332 x 303		Email Address: car					
Project Name/Number: 9329-001		-man Address. Car	neywenn-inc.com				
Please Provide Results:   Fax   Ema	il Purchase Order	· U	.S. State Samples Ta	ken: Montana			
Turi	naround Time (TAT)	Options* – Please Ch	eck				
*For TEM Air 3 hours/6 hours, please call ahead to sol	hedule *There is a premiu	m chame for 2 Hour TEM AL	96 Hour	14 1111			
an danonzation form for this service. Arialysis	completed in accordance	with EMSL's Terms and Co	onditions located in the Ana	You will be asked to sign lytical Price Guide.			
PCM - AIF	<u>TEM – Air</u>	5hr TAT (AHERA only)	TEM- Dust				
□ NIOSH 7400	AHERA 40 CFF	R, Part <b>7</b> 63	☐ Microvac - ASTN	1 D 5755			
☐ w/ OSHA 8hr. TWA	☐ NIOSH 7402		☐ Wipe - ASTM D6				
PLM - Bulk (reporting limit)	EPA Level II		☐ Carpet Sonication	n (EPA 600/J-93/167)			
☐ PLM EPA 600/R-93/116 (<1%)	☐ ISO 10312	Soil/Rock/Vermiculite					
PLM EPA NOB (<1%)	TEM - Bulk			- A (0.25% sensitivity)			
Point Count 	TEM EPA NOB			- B (0.1% sensitivity)			
Point Count w/Gravimetric	☐ NYS NOB 198.4	(non-friable-NY)		- B (0.1% sensitivity)			
□ 400 (<0.25%) □ 1000 (<0.1%)		min EDA COO O E		- C (0.01% sensitivity)			
NYS 198.1 (friable in NY)		ysis-EPA 600 sec. 2.5	EPA Protocol (Se				
NYS 198.6 NOB (non-friable-NY)	TEM - Water: EPA	A 100.2					
□ NIOSH 9002 (<1%)		Waste   □ Drinking     Other:     Waste   □ Drinking					
		arly Identify Homog	] []				
	OSITIVE STOP - CIE.	any identity nomog	enous Group				
Samplers Name: Amanda Thornton-DeWitt		Samplers Signature:					
Sample #	Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled			
P-BW-040110	ruck Driver/ Rail Cu .71	tting- MP 1329.81-	725	04-01-10/0854- 1459			
Jermel Brown- Cribbe		.81-1330.04/ 1324.49-	123	04-01-10/ 0855-			
P-J B-040110 $\nu$ 1324.71			825	1540			
P-NS-040110 Niles Singer- Asst. Fo 1330.04/ 1324.49-1324	reman/Walking Trac . 71	k- MP 1329.81-	000	04-01-10/ 0857-			
Kasey Kerwin- Labore	er/ General Tools- Mi	2 1329.81-	809	1526 04-01-10/ 0859-			
P-KK-040110 / 1330.04/1324.49-1324.	71		713	1453			
P-CB-040110 Chris Bradford- Driver	r/ Rail Cutting- MP 1:	329.81-1330.04/	631	04-01-10/0927- 1458			
S-1329.7W-040110 Stationary Pump- Wes	st End- MP 1329.7	RKm	2225	04-01-10/ 0930- 1405			
S-1329.7E-040110 Stationary Pump- East F	End- MP 1329.7		2225	04-01-10/0930-1405			
CB-Open-040110 Control Blank- Opened			0	04-01-10/1600			
Client Sample # (s): Amanda Thornton-l	DeWitt -		Total # of Samples:				
Relinquished (Client): Amanda Thornton-l				8			
- / / / / / / / / / / / / / / / / / / /		04-07-10	Time	:1025			
Received (Lab): R/L/W Comments/Special Instructions:	Date:	4/7/10	Time	: 1025			



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-001

Fax:

Samples collected 04/01/10

Customer ID:

Customer PO:

Received:

04/07/10 10:25 AM

EMSL Order:

271000047

EMRI78

EMSL Proj:

Analysis Date:

4/20/2010

Sampling Date:

4/1/2010

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structur ≥ 0.5µ < 5µ	es ≥5µ	Analytical Sensitivity (S/cc)	Asbo Concen (S/mm²)	estos tration (S/cc)
P-BW-040110 271000047-0001		725.00	0.1170		None Dete	ected		0.0045	<8.50	<0.0045
P-JB-040110 271000047-0002		825.00	0.1040		None Dete	cted		0.0045	<9.60	<0.0045
P-NS-040110 271000047-0003		809.00	0.1040	········	None Dete	cted		0.0046	<9.60	<0.0046
P-KK-040110 271000047-0004		713.00	0.1170		None Dete	cted		0.0046	<8.50	<0.0046
P-CB-040110 271000047-0005		631.00	0.1300		None Dete	cted		0.0047	<7.70	<0.0047
S-1329.7W- 040110 271000047-0006		2225.00	0.0520		None Dete	cted	···	0.0033	<19.00	<0.0033
S-1329.7E- 040110 271000047-0007		2225.00	0.0520		None Dete	cted		0.0033	<19.00	<0.0033
CB-Open-040110 271000047-0008			0.1300		None Dete	cted			<7.70	

Analyst(s)

Ron Mahoney (8)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/ms. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

#### INTERNAL CHAIN OF CUSTODY

4/5/2010 10:13:59 AM

Order ID: 2\*1000034

Attn:

Fax

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-001 Samples collected 4/1/2010

Phone: (218) 625-2332

EMSL Order:

EMSL Proj ID:

Customer ID:

Customer PO:

Received:

Cust COC ID

271000034

04/05/10 9:46 AM

EMRI78

TEM AHERA 24 Hour Qty: 8 TAT: Test: Matrix Alr Date: 4/5/2010 Acct Sts: Sispran: rdemalo Logged: mahoney ☐ Acceptable Sample BillingFrequency: Condition: Unacceptable Comments Exempt from prep charge Date: ☐ Exempt from lab opening fee Prepped: Date: Y/15/10 Analyzed: Exempt from layer/aliquot charges. 4/11/10 Date: Data Entry: Screened: Date: Mailed: Date: Special instructions

Internal Comment

1.115-11.11	***			
Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000034	271000034-0001	P-TB-040110		4/6/2010 9:46:00 AM
271000034	271000034-0002	P-JH-040110		4/6/2010 9:48:00 AM
271000034	271000034-0003	P-RH-040110		4/6/2010 9:46:00 AM
271000034	271000034-0004	P-AG-040110		4/6/2010 9:46:00 AM
271000034	271000034-0005	P-BA-040110		4/6/2010 9:46:00 AM
271000034	271000034-0006	\$-1332.0W040110	Rb	4/6/2010 9:46:00 AM
271000034	271000034-0007	S-1332.1E040110		4/6/2010 9:46:00 AM
271000034	271000034-0008	BK-040110		4/6/2010 9:46:00 AM

2710-EMR-ARC-14 (5-F) 2710-2MR-13/G-I)



### Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

27/0.000 34

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

·			EMSLE	III to: 🔲 Same 🛄 Di	fferent
Company : EMR, Inc			R Bill to its Di	fferent note instructions in Co	yminerils**
Street: 11 E. Superior	Street, Suite #260		Third Party Billing re	quires written authorizati	
City: Duluth		e/Province: MN	Zip/Postal Code: 5580	2 Cour	ntry: USA
Report To (Name): S	cott Carney		Fax #: (218) 625-2337		
Telephone #: (218) 6	25-2332 x 303		Email Address: carn	ey@emr-inc.com	
Project Name/Numbe	r: 9329-001				
Please Provide Resu	lts: 🔲 Fax 🛛 Er	nail Purchase Orde		S. State Samples Tak	en: Montana
	T	umaround Time (TAT)	Options* Please Chec	k	1 - 4 - 44 1-
☐ 3 Hour ☐ 6	Hour 🗵 24 Ho	ur 48 Hour	72 Hour 9	6 Hour 1 Weel	You will be never to sign
*For TEM Air 3 hours/6 ha	ours, piesse call ahead to arm for this senion — Anah	schedule."There is a premiu vale contribited in eccordano	m charge for 3 Hour TEM AHI e with EMSL's Terms and Con	ditions located in the Analy	tical Price Guide.
PCM - Air	THE DIES CONTROL	TEM - Air 44	5hr TAT (AHERA only)	TEM- Dust	<u> </u>
☐ NIOSH 7400		AHERA 40 CF		☐ Microvac - ASTM	D 5755
W/ OSHA 8hr. TW/	١.	NIOSH 7402	.,	☐ Wipe - ASTM D64	
PLM - Bulk (reporting		EPA Level II		☐ Carpet Sonication	
☐ PLM EPA 600/R-93		[] ISO 10312		Soil/Rock/Vermicul	
PLM EPA NOB (<1	, ,	7EM - Bulk	****	PLM CARB 435 -	
Point Count	70)	1 TEM EPA NOB	<b>1</b>	PLM CARB 435 -	•
☐ 400 (<0,25%) ☐ 10	300 (en 1%)	NYS NOB 198.		TEM CARB 435	
Point Count w/Gravime		Chatfield SOP	T (IIOTEINEDIC 141)	TEM CARB 435 -	
☐ 400 (<0.25%) ☐ 10	• • • •		lysis-EPA 600 sec. 2.5	☐ EPA Protocol (Se	,
· · · · · · · · · · · · · · · · · · ·		TEM - Water, EPA		EPA Protocol (Qu	
NYS 198.1 (friable	•	d. Indiana			INITAL PROPERTY
NYS 198.6 NOB (r	•	, -	Waste Drinking	Other:	
☐ NIOSH 9002 (<1%			Waste Drinking		
	Check Fo	r Positive Stop - Cit	early Identify Homoge	nous Group	
Samplers Name: Mike	Mckay		Samplers Signature:	mike mo	Kan
Sample #		Sample Description	•	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TB-040110	Trevor Beens-Pluge	ger- <b>I</b> #P-1331.8-1332.5		940	4-1-10-08:00-15:50
P-JH-040110 -	John Hobbs-Section	n Man-MP-1331.8-133	2.5	912	4-1-10-08:01-15:37
P-RH-040110 -	Ron Haves-Section	Man-MP-1331.8-1332	.5	914	4-1-10-08:03-15:40
P-AG-040110 -	Allen Gehrke-Forei	<u>nan-⊪P-1331.8-1332.5</u>		918	4-1-10-08:08-15:47
P-BA-040110 -	Brian Albro-Truck	Driver-MP 1331.8-1332	2,5	936	4-1-10-08:10-15:58
S-1332.0W040110	MP-1331.8-1332.5-1	Westend		2380	4-1-10-09:00-14:40
S-1332.1E040110 💉	MP-1331.8-1332.5-	astend		2394	4-1-10-09:08-14:45
BK-040110 -	BK-Opened			6	4-1-10
Client Sample # (s);	Mike Mckay	<del> </del>		Total # of Samples:	8
Relinquished (Client)		Data	4-5-10		
	Λ	Date:			: 09:46
Received (Lab):	R.K. Malen	Date:	4/5/10	Time	0841
	etrictions:				n n
Comments/Special In	strúctions:				



107 West 4th Street, Libby, MT 59923

Fax: Ernell: mobileesbestoelab@emsl.com Phone: (406) 293-9066

Attn: Scott Carney

EMR, Inc.

Customer ID:

EMRI78

11 East Superior Street

Customer PO: Received:

04/05/10 9:46 AM

Suite 260

Fax:

Project:

Duluth, MN 55802

EMSL Order:

271000034

(218) 625-2337

Phone: (218) 625-2:32

EMSL Prol:

9329-001 Samples collected 4/1/2010

Analysis Date:

4/15/2010

Sampling Date:

4/1/2010

#### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Senzitivity (S/cc)	Asbe Concen (S/m m²)	
P-TB-040110 271000034-0001		940.00	0.0910		None Dete	cted	0.0045	<11.00	<0.0045
P-JH-040110 271000034-0002		912,00	0.0910		None Dete	cted	0.0046	<11.00	<0.0048
P-RH-040110 271000034-0003		914.00	0.0910		None Dete	cted	0.0046	<11.00	<0.0046
P-AG-040110 271000034-0004		918,00	0.0910		None Dete	cted	0.0046	<11.00	<0.0046
P-BA-040110 271000034-0005		936.00	0.0910		None Dete	cted	0.0045	<11.00	<0.0045
S- 1332.0W040110 271000034-0006		2380.00	0.0520		None Dete	cted	0.0031	<19.00	<0.0031
S-1332.1E040110 271000034-0007		2394.00	0.0520	·····	None Dete	cted	0.0031	<19.00	<0.0031
BK-040110 271000034-0008			0.1300		Nane Dete	cted		<7.70	

Analyst(s)

Ron Mahoney (8)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-reboratory personner. This lab is only responsible for data reported in structures/mm. This report may not be reproduced, except in Rdf, without written approved by EMSL. This report must not be used to claim product widoxeement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Outsily control data (Including 35% considerate limits and laboratory and analysis' accuracy and practision) is a walkable upon request. As per 40 EFT 753, the Intigs acro-online upon test may not person request. As per 40 EFT 753, the Intigs acro-online upon test may not obtained volumes of <1200 litera. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples inscaled in good condition unless otherwise noted. Samples enalyzed by EMSL Analytical, Inc. 107 West 4th Street, Libby MT NVLAP Lab Code 200745-0

Test Report TEMAHERAver1-7.12.0 Printed: 4/16/2010 8:29:09 AM

THIS IS THE LAST PAGE OF THE REPORT.

AHERA7,9,0

		1000034-00  R, Inc.	UT			]	Oro	ler ID	2710	000034	ļ		l: 05-Apr-10 : 24 Hour	
	s: 11 Sui	East Superi te 260 luth, MN 55			S	ample Local	- 1	: P-TB-04	4011 <b>0</b>			<u>Re</u> Tuesday	24   1001   Suits Due   April 06, 2010   9:46 AM	
Projec		29-001 mples colle	cted 4/1/201	10					Sp	ecial Instruc	tions	-		
		-	NSD = No S	tructures	Detected	Struc	ure	Types: { f	= Fiber	, B = Bundle,	C = Cluste	r, M = Mairix )		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Ske	tch	LEN ≥ 0.5 µm < 5 µm	VGTH 25 µn	WIDTH	Structure Type	Negative Number	EDXA Chrys.,Amo., Et	lc.
/	٤4	NO					1	<u> </u>	C. U p	<del>}                                    </del>	FBCM			
	C4					<del>!</del>					FBCM			
	CI	ND		<u> </u>			<del> </del>		·	<u> </u>	FBCM			
<u> </u>	/32	מא					$\dagger$	-			FBCM			
2	06	ND.	· · · · · · · · · · · · · · · · · · ·			<u> </u>					FBCM			
	A7	U1)				_	ή.		-		FBCM			
	AG	N/I)			<u> </u>				-		FBCM			
	7/0	7.1				.)	1		i	<u> </u>	FBCM		<u> </u>	
	1		· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>			$^{\perp}$		_		FBCM			
				<u> </u>							FBCM	<del></del>		
							$\vdash$			· · · · · · · · · · · · · · · · · · ·	FBCM			
			-		and a		<del>  -</del>				FBCM			
						2/4	42				FBCM	<del>-</del>	, .	
		i								<del></del>	FBCM	· <del> </del>		
		·									FBCM			,
											FECM			
											FBCM	<u> </u>		
							<u> </u>				FBCM			
(Total					2 22 23						TBOW			-
	_	bers Prese	<i>→</i>		Nonasbe	etoe E	ihor	Descon		Man Towns Af		· .		
	hrysoti			ľ		Gypsu		9 L16941		iter Type: M iter Size (mn			TEM Voltage (kv): 100 lagnification (X): 19K	:
	nthoph			Ì	_	Glass			- 1					
	mosite	•		1	= '	Celluid	se			FA (sq.mm):			Opening Area: mm² O Required: ヴ	
C	rocidol	ite			(4 (	Organ	ic Fi	bers	- 1	ter Pore Size Sample Vol	_	5.40	GO Analyzed: 7	
	ctinolite				☐ (5·I	Fibers	Çor	ntaining		Frid Box #		940		
TI	emolit	e								irio Box # ilter Accept			Yes No	_
									u	no, reason				
Analysi		RIG	241		Scope		7	-1	Date	4/15/11	2			
						1								
EDAZ OC													B 4 : 50	
IERA7,9,0				EM\$	L Analytic	al, Ind.	, 107	7 Wost 4th	Street,	Libby, MT 59	923		Page 1 of 8	

	ab ID: 271000034-0002 Client: EMR, Inc. Idress: 11 East Superior Street					Ord	er ID	2710	00034	Received: 05-Apr-10 TAT: 24 Hour			
		•	or Elmai		s	ample ID:	P-JH-04	10110	<b>3.</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, –			
	Sui Dui	te 260 uth, MN 55				ocation:					Tuesday	sults Due April 06, 2010 0:46 AM	
Projec		29-001 mples colle	cted 4/1/201	0 ,	. ,			Spe	cial Instruc	tions			
			NSD = No St	nuctures l	Defected	Structure	Types: { P	= Fiber.	B ≈ Bundle.	C = Cluster,	M = Matrix }		
Grid I.D.	G.O.	Structure Number	Non Asbestos	OBSER		Sketch		IGTH	MIDTH	Structure Type	SAED Negative Number	EDXA Thros., Etc.	
1	62	NO			·					FBCM			
	G4	ND_								FBCM			
	GG	NP								FBCM			
	G8	NO								FBCM			
2	76	_ NO							-	FBCM			
	74	v.0								FBCM			
	ፓን	מע								FBCM			
									1	FBCM			
			/							FBCM			
			-							FBCM		,	
					EA	41				FBCM			
						-4K-3Z	140			FBCM			
			··							FBCM			
										FBCM			
						,				тъвсм		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
							l			FBCM		· · · · · · · · · · · · · · · · · · ·	
										FBCM			
		- th Atlanta								FBCM	1		
(Tota	1)	4.	_40		` · · · · · · · · · · · · · · · · · · ·			1					
<u> </u>	-	bers Prese	nt D		Nonasbo	stos Fiben	s Preser	nt Fi	iter Type: M	CE		TEM Voltage (kv): 100	
I —	hrysot			1		Gypsum		- 1	iter Size (mn			Sagnification (X): 19K	
A	nthoph	ryllite				Glass			FA (sq.mm) <u>:</u>		Grid	Opening Area: mm³	
	mosite			1		Cellulose	_	FI	iter Pore Siz	e (micron): 0.	45 G	O Required: 7	
i 🖳	rocido) ctinolit				== :	(4) Organic Fibers (5) Fibers Containing			Sample Volume (L): 912 GO Analyzed: 7				
	remolit				——————————————————————————————————————	- ibeis Coi		F	ilter Accep	3.710 - 6.74/ ted for Anal	ysis: 🗷	v <u>€</u> Column Yes ☐ No	
<u></u>		10 10					****			for rejection	n:		
Analys	t	RICOM	******		Scope	27-		Date	4/15/	0			

		1000034-00 R, Inc.	03			Ord	e <u>r ID</u>	271	000034		Received: 05-Apr-10 TAT: 24 Hour		
	5: 11 i Sui	East Superi te 260 uth, MN 55			S	emple ID: ocation:	P-RH-04	40110			<u>Re</u> Tuesday	24 Hour sults Due April 06, 2010 0:46 AM	
Projec	ot: 932 Sai		cled 4/1/201	0				ŞD	ecial instruc	tions		1	
			NSD = No St	ructures E	Detected	Structure 1	Types: { F	= Flbei	r, B = Bundle,	C = Cluster,	M = Metrix }		
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER Chrys		Sketch	LEN ≥ 0.5 μm < 5 μm	1GTH       ≥ 5 µr	Moth n pm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	F2	ND								FBCM			
	FY	ND.								FBCM			
	F6	ND								FBCM			
	F8	NO								FBCM			
2	קינ	NO								FBCM			
	25	ND								FBCM			
	J 3	עע								FBCM		3	
/										FBCM			
										FBCM			
										FBCM		٧.	
					Ran		·			FBCM			
						ATISTA				FBCM	1		
						2-4				FBCM			
										FBCM			
										FBCM			
									-	FBCM			
					*					FBCM			
` "					-					FBCM			
(Total	1)	Ð	Ð							141			
-	_	bers Prese	100	1	lonasbe	tos Fiber	Presen	t F	liter Type: M	CE		FEM Voltage (kv): 100	
^A	hrysoti nthoph mosite rocidol	ryllite Ilte			(2) (3) (3) (4) (4) (4)	Sypsum Slass Cellulose Organic Fil		F	ilter Size (mm FA (sq.mm): ilter Pore Size Sample Vol	n): <u>25</u> 385 e (micron): <u>0</u>	M	agnification (X): 19K  Opening Area: mm <sup>e</sup> O Required: 7  GO Analyzed:	
	ctinolite remolit	<del>-</del>	7-14			fibers Con			Grid Box # Filter Accept f no, reason	2716 - Lag ted for Anal for rejection	ysis: 🗷		
Analys	t	pku	<u> </u>		Scope	27-		Date	4/15/1	Δ		·	

		1000034-00 R, Inc.	04			Or	der ID	2710	00034			: 05-Apr-10
Addres	s: 11 Sui Dui	East Superi te 260 luth, MN 55			\$	Sample III	); P-AG-0 n:	40110			Re Tuesday	24 Hour sults Due April 06, 2010
Projec		29-001 mples colle	cted 4/1/201	0				\$00	ocial Instruc	tions		
			NSD = No St	ructures l	Detected	Structure			B = Bundle,	C = Cluster,	M = Metrix }	
Grid I.D.	G.O. 1.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	≥ 0.5 µm		WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
	CY	410				<u> </u>				FBCM		
	Cb	מא					]			FBCM		
	C8									FBCM		<u> </u>
	40	NO								FBCM		
2	12	NO								FBCM		
	<i>I</i> 5	ND								FBCM		
	13	מא								FBCM		
										FBCM	<u>-</u>	
			· · · · · · · · · · · · · · · · · · ·							FBCM		
	•		***************************************							FBCM		
				-	Re		1			FBCM		100
						1/15		-		FBCM		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
							***************************************			FBCM		· /· 7
							<del> </del>			FBCM	-	
										FBGM		
				,			+			FBCM		
							<u> </u>		<u></u>	FBCM		
		1							·	FBCM	<del></del>	
<i>i</i> =					<u> </u>				<u> </u>	LDCM		
(Total	-	bers Preser	Ð	:			D	<u></u>		10.00		
	sios m hrysoti		n.			stos ribe Gypsum	ars Preser	- 1	iter Type: M			EM Voltage (kv): 100
	nthoph				-	Glass			lter Size (mn			agnification (X): 19K
_	mosite	-				Cellulose	•	- 1	FA (sq.mm) <u>:</u> to: Bom Size	385 (micron): 0.		Opening Area: mm³ O Required: "7"
C	rocidal	ite		ľ	(4:	Organic I	Fibers		Sample Vol		918	GO Analyzed: **
	ctinoliti emolit				(5)	Fibers Co	ontaining	G	rid Box#	27/0 • € m ed for Analy	8-13 Row	H & Column
										for rejectio		
Analysi		RION	`		Scope	27	-/	Date	4/15,	10		

Lab ID: 271000034-0005

271000034

Received: 05-Apr-10

#### Ashestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Order ID

Client	: EM	R, Inc.		Sample ID: P-BA-040110				' _	TAT: 24 Hour				
Address	\$uff	East Superi te 260 uth, MN 55			٥	ocation:		0110	•		Tuesday	<u>sults Due</u> . <u>April 06, 2010</u> 9:46 AM	į
Projec	t: 932 Sai	29-001 mples colle	cted 4/1/201	0				Spe	ecial instruc	tions		, TO 741	
			NSD = No Si	ructuras I	Detected	Structure	Types: { F	= Fiber	B = Bundle.	C = Cluste	r, M = Matrix }		
Grid	G.O.	Structure	Non	E				IGTH	WIDTH	Structure Type		EDXA	
I.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	չ5 µո	μm		Number	Chrys.,Amo., Etc	٤
_/	יינם	מע								FBCM			
	04	מא								FBCM			
	06	פע								FBCM			
	DB	_vn				1				FBCM			
2.	#4	מא					10	_		FBCM			
	# G	_ אַס		ſ						FBCM			
	#8	שע								FBCM			
										FBCM			
			~~~							FBCM			
	······································									FBCM			
										FBCM			
						26	4/25/ZZ			FBCM			
						-	×15/2	, —	<del>                                     </del>	FBCM	<del> </del>		
			<u> </u>							FBCM			
									1	FRCM			
			14.0.4			-		<del>                                     </del>		FBCM	-	•=-	
	i									FBCM	<del></del>		
										FBCM	*****		
(Total			-6		N	· · ·							
_		bers Prese	ent e		Nonashe	stos Fiber	s Preser	<u> </u>	ilter Type: M	re		TEM Voltage (kv): 100	
_	hrysot		• • •	ļ	_	Gypsum	J. 10047		iller Size (mr			Augnification (X): 19K	
_	nthoph			ĺ		Glass		- 1	FA (aq.mm):			Opening Area: mm²	******************
☐ A	mosite	•			(3:	Cellulose		ı	ilter Pore Siz			O Required: 7	
I 🛏	rocido					Organic F			Sample Vo	_	936	GO Analyzed:	•
===	ctinolit				<b>(5</b> )	Fibers Co	ntaining		Grid Box #			w _H_Column _	
· · · · ·	remolit	æ		İ					Ilter Accep		alysis: 🔏	Yes No	ن
									f no, reasor		ion:		
Analysi	:	R	w		Scope-	27-	·/	Date	4/15/1				

AHERA7.9.0

	.,	000034-00	06			<u>Oro</u>	er ID	2710	000034			05-Apr-10	
	5: 11! Sul	R, Inc. East Superi te 260 uth, MN 550			S	ample ID: Location:	S-1332.	0W040	110		Re: Tuesday,	24 Hour suits Due April 05, 2010	
Projec	il: 93) Sai	29-001 mples collec	cted 4/1/201	0					ecial Instruc		×		14,4.
			NSD = No St		-	Structure			T		M = Matrix }		4
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos		D VATION Amphi	Sketch	LEN ≥ 0.5 μm < 5 μm	iGTH ≥5μπ	winth n µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1	C3	w.								FBCM			
	65	NO								FBCM			
2	<b>43</b>	NO.								FBCM			
	ح2	ND								FBCM			
1						- INJULA				FBCM			
						· · · · · · · · · · · · · · · · · · ·				FBCM			
						-				FBCM			
										FBCM	****	<del>2 </del>	7
		<u> </u>			A. A					FBCM			_
						Se.				FBCM			ᄏ
						-	4/			FBCM		· · · · · · · · · · · · · · · · · · ·	┨
							4/15	(Q		FBCM			$\neg$
						141			$\overline{}$	FBCM			٦
										EBCM			
			N.				L			FBCM			$\neg$
										FBCM			
										FBCM			
										FBCM			$\exists$
(Total	,		Ð										ì
Asbe	stos Fi	bers Prese		1		stos Fiber	s Presen	Į.	ilter Type; M			EM Voltage (kv): 100	1
	hrysoti nthoph					Sypsum Slass		- 1	ilter Size (mn			agnification (X): 19K	
_	mosite	•			***	Cellulose		- 1	FA (sq.mm) <u>:</u> iller Pore Size			Opening Area: mm² O Required: 4	
	rocidol	ite				Organic Fi	bers		Sample Vol		2380	GO Analyzed:	7
	ctinolite	_		ļ	(5: F	ibers Cor	ntaining	⊢,	Grid Box #	<del></del>			ᅱ
Tı	emolit	₽						F	Filter Accept f no, reason	ed for Anal	ysis: 🗶		_
Analysi		R	um		Scope	27	-/	Date					_

	Client: EMR, Inc.				<u>Order ID</u> 271000034				]	Received: 05-Apr-10 TAT: 24 Hour		
	s: 11   Sui	East Superi te 260 uth, MN 556			s	ample ID: Location:	S-1332.	IE04011	0		<u>Re</u> Tuesday	24 Hour 
Projec		29-001 mples collec	cted 4/1/201	٥				Spe	cial instruc	tions		5.70 AIR
	<del></del>		NSD = No Si	ructures l	Detected	Structure '	Types: { F	= Fiber.	B = Bundle.	C = Cluster	M = Matrix }	
Grld I.D.	G.O.	Structure Number	Non Asbestos	OB\$ER		Sketch		IGTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	CY	NO_		311170	7 KKIPFII			20 μπ		FBCM	- rearrager	
	CG	NO_								FBCM	`	
2	CG	Nn								FBCM		
	CY	NO			-			,		FBCM		
										FBCM		
	/									FBCM		
		<i>[</i>	/							FBCM		
			/	/						FBCM		
					Ž	(3 XX				FBCM		
					-	1/2/				FBCM		
			#atr			· ·	×40			FBCM		
										FBCM		
		,								FBCM		
		1177.5		***************************************						FBEM		
		1			**********					FBCM		
			,							FBCM	_	
										FBCM	****	
										FBCM		
(Total	)	Ø	40		E ST	i. Lamps in the						· · · · · · · · · · · · · · · · · · ·
	stos Fi hrysoti nthoph mosite rocidol ctinolite remolite	yllite ite e	nt		(1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	stos Fiberi Gypsum Glass Cellulose Organic Fi Fibers Con	bers	Filt EF Filt S	Sample Vol	n): <u>25</u> 385 (micron): <u>0</u>	964 45 G 2394	TEM Voltage (kv): 100 flagnification (X): 19K  Opening Area: mm²  GO Required:  GO Analyzed:  GO Analyzed:  Market Column  Yes No
Analysi	·	RM	*		Scope	27-		1	-	for rejection	-	

Lab ID: 271000034-0008

Client: EMR, Inc.

271000034

Received: 05-Apr-10

#### Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Order ID

		IR, inc.				سيسا	DIC 040	440		1	TAT	Γ: 24 Hour	
Addres	Sui	East Super ite 260 luth, MN 55			į.	ample ID: Location:		110			_	esults Due y, April 08, 2010 9:46 AM	<u>.</u> ا ؛
Proje		29-001 mpies colle	ected 4/1/201	10				<u>\$</u> 0	ecial Instruc	tions	3.0757412.0		1
			NSD = No S	taiction	Delector	Structure	Tyman: / F	E – Eiha	. R v Rundla	C = Cluster	r, M = Matrix	1	
			1430 - 140 3		D	SHUCKHE		NGTH	WIDTH	Structure	<del></del>	EDXA	
Grid	G.O. I.D.	Structure Number	Non Asbestos		VATION Amphi	Sketch	> 0.5 µm < 5 µm	1		Туре	Negative Number	Chrys.,Amo., Etc	).
1	191	מע								FBCM	1		
	A 3	νp								FBCM			
	A5	NO								FBCM			
	A7	_vp								FBCM			
	C 3	Vo								FBCM			
2	62	פע			and the state of t		İ			FBCM			-
	G4	NO								FBCM			
	6-6	N2								FBCM			
	68	NO								FBCM			
	143	NO								FBCM			
					-					FBCM		***************************************	**
		-			***************************************				<del>                                     </del>	FBCM			
-					100					FBCM			
-						3 4/4		-		FBCM			
-			<u> </u>			4.2	HAVE.			FBCM			
	<del></del>									FBCM	<del> </del>		
	<u> </u>	<u></u>		<del> </del>	<b></b>					FBCM			
				_		ļ		1	· <b> </b>	FBCM	-	-	
(Tota	ı.	_	-0			E.,,			1				i i
		bers Prese		*'	Nanash	stos Fiber	e Preser	nt   E	alter Type: M	CE		TEM Voltage (kv): 100	• .
I —	hrysot					Gypsum	• ( (0.00)		ilter Size (mn			Magnification (X): 19K	
I	nthoph				_	Glass			FA (sq.mm):			i Opening Area: mm²	
ı	mosite			}	****	Cellulose		- 1	iter Pore Size		_	GO Required: 10	
ı	rocidol			ļ		Organic Fi			Sample Vo	lume (L):	10	GO Analyzed: 🔥	
	ctinolit remolii				(5)	Fibers Co	ntaining 		Grid Box # Filter Accep			yes No	
					**********	~~~			f no, reasor		on:		
Analys	t	A/Co	2		Scope	27	-/	Date	4/15/	10			



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID:

EMRI78

11 East Superior Street

Customer PO: Received:

04/07/10 10:31 AM

Suite 260

EMSL Order:

271000045

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

EMSL Proj:

Project: 9329-001

Fax:

Samples collected 04/05/10

Analysis Date:

4/16/2010

Sampling Date:

4/5/2010

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

		Volume	Area Analyzed	Non	Asbestos	# Structur	es	Analytical Sensitivity	Asbe Concen	
Sample	Location	(Liters)	(mm²)	Asb	Type(s)	≥ 0.5µ < 5µ	≥5μ	(S/cc)	$(S/m m^2)$	(S/cc)
P-NS-040510 271000045-0001		969.00			Overloaded	d				
P-BW-040510 271000045-0002		973.00			Overloaded	t				
P-TW-040510 271000045-0003		975.00	0.0910		None Dete	cted		0.0043	<11.00	<0.0043
P-JB-040510 271000045-0004		974.00	0.0910		None Dete	cted		0.0043	<11.00	<0.0043
P-TS-040510 271000045-0005		968.00	0.0910	-	None Dete	cted		0.0044	<11.00	<0.0044
S-1311W-040510 271000045-0006		2250.00	0.0520		None Dete	cted		0.0033	<19.00	<0.0033
S-1311E-040510 271000045-0007		2250.00	0.0520		None Dete	cted		0.0033	<19.00	<0.0033
CB-Open040510 271000045-0008			0.1300		None Dete	cted	<del>.</del>		<7.70	

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Fax:

Project:

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

9329-001

Samples collected 04/05/10

Customer ID:

EMRI78

Customer PO:

Received:

04/07/10 10:31 AM

EMSL Order:

271000045

EMSL Proj:

Analysis Date:

4/16/2010

Sampling Date:

4/5/2010

#### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep)**

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5	Analytical Sensitivity µ (S/cc)		
P-NS-040510 271000045-0001		969.00	0.1300		None Dete	ected	0.0290	<72.00	<0.0290
P-BW-040510 271000045-0002		973.00	0.1300		None Dete	ected	0.0110	<29.00	<0.0110

Analyst(s)

Roy Pescador (2)

R. K. Mahoney, Laboratory Manager or other approved signatory

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on wolume collected by non-laboratory personnel. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

27/000045

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc			EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**							
Street: 11 E. Superio	r Street, Suite #260				equires written authorizati					
City: Duluth		Province: MN	Zip/Postal Code			ntry: USA				
Report To (Name): S			Fax #: (218) 62			my. oon				
Telephone #: (218) 6		,			ey@emr-inc.com					
Project Name/Numbe			Liliali Addiess.	Carri	еушени-шс.сош					
Please Provide Resu	ilts: ☐ Fax ⊠ Emai	l Purchase Order	•	U.S	S. State Samples Tak	en: Montana				
		around Time (TAT)	Options* - Pleas							
	Hour 🛛 🖾 24 Hour	48 Hour	72 Hour		6 Hour 1 Week	⟨				
*For TEM Air 3 hours/6 ho an authorization fo	ours, please call ahead to sch orm for this service. Analysis	edule.*There is a premiul completed in accordance	m charge for 3 Hour T	EM AHI	ERA or EPA Level II TAT.	You will be asked to sign				
PCM - Air	The this corride. Thidry dis	<u>TEM − Air</u>	5hr TAT (AHERA on	and Cor	TEM- Dust	ucai Price Guide.				
☐ NIOSH 7400		☑ AHERA 40 CFF		3,	☐ Microvac - ASTM	D 5755				
□ w/ OSHA 8hr. TWA	4	☐ NIOSH 7402	.,		☐ Wipe - ASTM D64					
PLM - Bulk (reporting	ı limit)	☐ EPA Level II			☐ Carpet Sonication					
☐ PLM EPA 600/R-93	·	☐ ISO 10312			Soil/Rock/Vermiculi	·				
☐ PLM EPA NOB (<1	` '	TEM - Bulk	· · · · · · · · · · · · · · · · · · ·		☐ PLM CARB 435 -	_				
Point Count	70)	☐ TEM EPA NOB			PLM CARB 435 -	·				
☐ 400 (<0.25%) ☐ 10	000 (<0.1%)	☐ NYS NOB 198.4	l (non-friable-NY)		1	` '				
Point Count w/Gravime	,	☐ Chatfield SOP	.4 (non-friable-NY) ☐ TEM CARB 435 - B (0.1% sen							
☐ 400 (<0.25%) ☐ 10		☐ TEM Mass Anal	vsis-FPA 600 sec	2.5	☐ EPA Protocol (Se	· · · · · · · · · · · · · · · · · · ·				
☐ NYS 198.1 (friable	•	TEM - Water: EPA			1	•				
☐ NYS 198.6 NOB (n	•	Fibers >10µm								
` <u> </u>	•	, , , , , , , , , , , , , , , , , , , ,	] Waste   □ Drinking							
☐ NIOSH 9002 (<1%		ositive Stop – Cle								
	□ Clieck FOI F	ositive Stop - Cie	arry luentity no	moge	nous Group					
Samplers Name: Ama	ında Thornton-DeWitt		Samplers Signa	ture:						
Sample #		Sample Description			Volume/Area (Air) HA # (Bulk)	Date/Time Sampled				
	NilesSinger- Assistan			80-	1	04-05-10/0851-				
P-NS-040510 ~	1311.60	lahana / Olimban O	BAD 4040 (	20	969	1700				
P-BW-040510	Brant Weisenburger-   1311.60			50-	973	04-05-10/ 0853- 1706				
	Troy Webster- Group	5 Machine Operator	/ Pregauger- MP			04-05-10/ 0855-				
P-TW-040510 ~	1310.80-1311.60				975	1711				
P-JB-040510 V	Jermel Brown- Crib Ra	azzer/ Cribber- MP 1	310 80-1311 60		974	04-05-10/0857- 1712				
	Thomas Swift- Group			mb-	37-7	04-05-10/ 0858-				
P-TS-040510	MP 1310.80-1311.60	<u> </u>			968	1705				
S-1311W-040510 🗸	Stationary Pump- Wes	st End- MP 1311			2250	04-05-10/ 1000- 1500				
S-1311E-040510 V Stationary Pump- East End- MP 1311 2250 04-05-10/ 1000- 1500										
CB-Open-040510										
Client Sample # (s):	Amanda Thornton-	DeWitt -			Total # of Samples:	8				
Relinquished (Client):			04-05-11		-	: 1031				
Received (Lab):	RVm-1	مد Date:	4/7/10			1031				
Comments/Special In:	structions:	Date.	1/2/10		ı ime	1057				
•						ł				

#### INTERNAL CHAIN OF CUSTODY

4/6/2010 11:01:18 AM

Order ID: 271000038

Phone: (218) 625-2332

Attn:

Fax

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-001 Project

**Internal Comment** 

Samples collected 4/5/2010

Customer ID:

Customer PO:

Received:

04/06/10 8:58 AM

EMRI78

271000038

EMSL Order: EMSL Proj ID:

Quet COC ID

TEM AHERA TAT: 24 Hour Qty: 8 A۰۲ Test: **Matrix** Date: 4/6/2010 Acct Sts: Sisprsn: rdemalo Logged: mahoney <u>Şample</u> ▼ Acceptable BillingFrequency: Condition: ☐ Unacceptable Comments □ Exempt from prep charge Date: Exempt from lab opening fee Prepped: Analyzed: Date: ☐ Exempt from layer/aliquot charges Date: Data Entry: Screened: <u>Date:</u> Date: Mailed: Special Instructions

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000038	271000038-0001	P-TC-040510		4/7/2010 8:58:00 AM
271000038	271000038-0002	P-AS-040510		4/7/2010 8:58:00 AM
271000038	271000038-0003	P-DT-040510		4/7/2010 8:58:00 AM
271000038	271000038-0004	P-CP-0405*0		4/7/2010 8:58:00 AM
271000038	271000038-0005	P-RF-040510		4/7/2010 8:58:00 AM
271000038	271000038-0006	S-1324-09V/040510		4/7/2010 8:58:00 AM
271000038	271000038-0007	S-1324.1E040510	)	4/7/2010 8:58:00 AM
271000038	271000038-0008	BK-040510		4/7/2010 8:58:00 AM

2710-EMR-ARC-14(GH)



## Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

27/000038

EMSL ANALYTICAL, INC 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc												
Street: 11 E. Superior	Street, Suite #260		Third Party Billing re	equires written euthorizati	on from third party							
City: Duluth		rovince: MN	Zip/Postal Code: 5580		ntry: USA							
Report To (Name): S	cott Carney		Fax #: (218) 625-2337									
Telephone #: (218) 6			Email Address: carno	ey@emr-inc.com								
Project Name/Number												
Please Provide Resu		Purchase Order	: U.S	S. State Samples Tak	en: Montana							
		(TAT) emiT bruch	Options" – Please Ched									
3 Hour 6	Hour 🔯 24 Hour	48 Hour	72 Hour 8	6 Hour 1 Weel								
*For TEM Air 3 hours/6 he	ours, please call sheed to sche orm for this service. Analysis	edule,"There is a premius completed in accordance	n) charge for 3 Hour TEM Arti with EMSL's Terms and Con	=RA or EPA Leverir IAT. Iditions located in the Analy	tical Price Guide.							
PCM - Alr	THE CONTRACT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		Shir TAT (AHERA only)	TEM- Dust								
☐ NIOSH 7400		AHERA 40 CFI	R, Part 763	☐ Microvac - ASTM	D 5755							
w/ OSHA 8hr, TW/	A	NIOSH 7402		☐ Wipe - ASTM D64	480							
PLM - Bulk (reporting	Ll(mit)	EPA Level II	•	☐ Carpet Sonication	(EPA 600/J-93/167)							
☐ PLM EPA 600/R-93	V116 (<1%)	☐ ISO 10312		Soil/Rock/Vermiculite								
PLM EPA NOB (<1	%)	TEM - Bulk		PLM CARB 435 - A (0.25% sensitivity)								
Point Count		TEM EPA NOB		☐ PLM CARB 435 - B (0.1% sensitivity)								
<b>400 (&lt;0,25%) 1</b> 0	000 (<0.1%)	NYS NOB 198.4	(non-friable-NY)	☐ TEM CARB 435 - B (0.1% sensitivity)								
Point Count w/Gravime	etric	Chatfield SOP	,	TEM CARB 435 - C (0.01% sensitivity)								
☐ 400 (<0.25%) ☐ 10		TEM Mass Anal	ysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)								
NYS 198.1 (friable	in NY)	TEM - Water, EPA	100.2	☐ EPA Protocol (Quantitative)								
☐ NY\$ 198,6 NOB (n	on-friable-NY)	¹ijbers >10µm 🔲	Waste 📋 Drinking	Other:								
☐ NIOSH 9002 (<1%	)	All Fiber Sizes	Waste Drinking									
				enous Group								
	☐ Check For Positive Stop - Clearly Identify Homogenous Group											
Samplers Name: Mike		esitive Stop – Cle	arly Identify Homoge Samplers Signature:	MINIOUS Group	nekay							
	e Mckay		Samplers Signature:	Volume/Area (Air)	Date/Time							
Samplers Name: Mike	e Mckay	esitive Stop – Cle	Samplers Signature:	Mike o								
	e Mckay	Sample Description	Samplers Signature:	Volume/Area (Air)	Date/Time							
Sample #	Mckay	Sample Description	Samplers Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled							
Sample # P-TC-040510	Mckay  Tony Cox-Group-5-MP	Sample Description -1330-1332 -MP1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled 4-5-10-08:00-15:10							
Sample # P-TC-040510  P-AS-040510	Tony Cox-Group-5-MP	Sample Description -1330-1332 -MP1330-1332 F1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk) 860	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38							
Sample # P-TC-040510  P-AS-040510  P-DT-040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M	Sample Description -1330-1332 -MP1330-1332 -P1330-1332 an-MP1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk) 860 924	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk) 860 924 894	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20 4-5-10-07:54-15:03							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  P-RF-040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk) 860 924 894 858	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20 4-5-10-07:54-15:03 4-5-10-07:58-15:36							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  P-RF-040510  S-1324-09W040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm Randy Finley-Group-5 MP-1330-1332-Westen	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk) 860 924 894 858 916	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20 4-5-10-07:54-15:03 4-5-10-07:58-15:36 4-5-10-08:20-14:56							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  P-RF-040510  S-1324-09W040510  S-1324-1E040510  BK-040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm Randy Finley-Group-5 MP-1330-1332-Westen MP-1330-1332-Eastence	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk)  860 924 894 858 916 2772 2765	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20 4-5-10-07:54-15:03 4-5-10-07:58-15:36 4-5-10-08:20-14:56 4-5-10-08:24-14:59							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  P-RF-040510  S-1324-09W040510  S-1324.1E040510	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm Randy Finley-Group-5 MP-1330-1332-Westen MP-1330-1332-Eastene BK-Opened Mike Mckay	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk)  860 924 894 858 916 2772	Date/Time Sampled 4-5-10-08:00-15:10 4-5-10-07:56-15:38 4-5-10-07:53-15:20 4-5-10-07:54-15:03 4-5-10-08:20-14:56 4-5-10-08:24-14:59 4-5-10							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  S-1324-09W040510  S-1324-1E040510  BK-040510  Client Sample # (s): Relinquished (Ctient)  Received (Lab):	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm Randy Finley-Group-5 MP-1330-1332-Westen MP-1330-1332-Eastend BK-Opened Mike Mckay  Mike Mckay	Sample Description -1330-1332	Samplers Signature:  4-6-10	Volume/Area (Air) HA # (Bulk)  860 924 894 858 916 2772 2765 6 Total # of Samples:	Date/Time Sampled  4-5-10-08:00-15:10  4-5-10-07:56-15:38  4-5-10-07:53-15:20  4-5-10-07:54-15:03  4-5-10-07:58-15:36  4-5-10-08:20-14:56  4-5-10-08:24-14:59  4-5-10  8  6 \$3 \cdot 5 \cdot 8							
Sample #  P-TC-040510  P-AS-040510  P-DT-040510  P-CP-040510  S-1324-09W040510  S-1324-1E040510  BK-040510  Client Sample # (e):  Relinquished (Client)	Tony Cox-Group-5-MP Andrew Smith-Grinder Doug Throop-Labor-M Carson Poore-Trackm Randy Finley-Group-5 MP-1330-1332-Westen MP-1330-1332-Eastend BK-Opened Mike Mckay  Mike Mckay	Sample Description -1330-1332	Samplers Signature:	Volume/Area (Air) HA # (Bulk)  860 924 894 858 916 2772 2765 6 Total # of Samples:	Date/Time Sampled  4-5-10-08:00-15:10  4-5-10-07:56-15:38  4-5-10-07:53-15:20  4-5-10-07:54-15:03  4-5-10-08:20-14:56  4-6-10-08:24-14:59  4-5-10  8  9  9  9  9  9  9  9  9  9  9  9  9							



107 West 4th Street, Libby, MT 59923

Phone: (408) 293-9066 Fax: F mail: mobileasbestoslab@omsi.com

Attn: Scott Carney EMR, inc.

11 East Superior Street

Suite 260

Duluth, MN 55802 Fax:

(218) 625-2337

Phone: (218) 625-2332

Project: 9329-001

Samples collected 4/5/2010

Customer ID:

EMRI78

Customer PQ:

Received:

04/06/10 8:58 AM

EMSL Order:

271000038

EMSL Proj: Analysis Date:

4/15/2010

Sampling Date:

#### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volum: (Liters:	Area Analyzed (mm³)	Non Asb	Asbestos Type(s)	# Structure ≥ 0.5µ < 5µ	:s ≥5µ	Analytical Sensitivity (S/cc)	Asbe Concen (S/mm²)	
P-TC-040510 271000038-0001		<b>860.0</b> 0	0.0910		None Dete	cted		0.0049	<11.00	<0.0049
P-AS-040510 271000038-0002		924.00	0.0910		None Dete	cted		0.0046	<11.00	<0.0046
P-DT-040510 271000038-0003		894.00	0.0910		None Dete	octed		0.0047	<11.00	<0.0047
P-CP-040510 271000038-0004		858.00	0.0910		None Dete	cted		0.0049	<11.00	<0.0049
P-RF-040510 271000038-0005		916.00	0.0910		None Dete	octed		0.0046	<11.00	<0.0046
S-1324- 09W040510 271000038-0006		2772.00	0.0520		None Dete	cted	•	0.0027	<19.00	<0.0027
S-1324.1E040510 271000038-0007		2765.00	0.0520		None Dete	cted	Mi	0.0027	<19.00	<0.0027
SK-040510 271000038-0008			0.1300		None Dete	cted		······································	<7.70	•

Analyst(s)
------------

Roy Pescedor (8)

R. K. Mahoney Laboratory Manager

or other approved signatory

The laboratory is not responsible for data reported in structures/so, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in (ut), without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples, reported above. Quality centred data (including 95% confidence limits and laboratory and ensigned precision) is available upon request. As per 40 EFR 763, the first securing test may not applied to samples with collected volumes of <1200 librar. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples energized by EMSL Analytical, Inc. 107 West 4th Street, Libby-MT NVLAP Lab Code 200745-0

Test Report TEMAHERAver1-7.12.0 Printed: 4/16/2010 7:51:34 AM

THIS IS THE LAST PAGE OF THE REPORT.

Lab II	): 27 <sup>4</sup>	000038-00	01	•		Oro	ier ID	271	000038		Received	: 06-Apr-10	
		R, inc.			ç	ample ID:		40510		· _	TAT:	24 Hour	
	. Sui	East Superi te 260 luth, MN 55			3	Location:		<b>100</b> 10			Wednesda	<u>sults Due</u> IV. April 07, 2010 3:58 AM	
Proje		29-001 mptes colle	cted 4/5/201	0				<u>5</u> j	pecial Instruc	tions			
		<u> </u>	NSD = No St	ructures l	Detected	Structure	Types: { l	= Fibe	er, B = Bundle	, Ç ≃ Cluster	, M = Matrix }		
Grid i.D.	G.O.	Structure Number	Non Asbestos	OBSER	D VATION	Sketch	LEN ≥ 0.5 µm < 5 µm		WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.	
1.0.	<del> </del>		Aspesios	Cittys	Amphi	SKEICH	- 5 juli	≥5µ	ım µm	FBCM	Hanne	Only and I	
<del>                                     </del>	87	ND No	<u> </u>		<u> </u>		┼──	<del>                                     </del>	-	FBCM			
<del> </del>	B2_			<del>                                     </del>			<del> </del>	-		FBCM			_
	<u>as</u>	44					<del> </del>	-	-	FBCM	8.1-		
2	<b>B3</b>	مار مار	-			<u> </u>	<del> </del>		<del>~  </del>	FBCM	HILL AND THE STREET		_
	BE	No				-	-		-				
	87	<del> </del>					<del> </del>	<del> </del> -		FBCM			_
_	29	44						<b>├</b>	_	FBCM	. · · · · · · · · · · · · · · · · · · ·		
	ļ			_			ļ	L		FBCM		<u> </u>	
<u> </u>	<b>}</b>				ļ	<u> </u>	<del>                                     </del>	₩		FBCM			_
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	↓						-	<u> </u>	<u></u>	FBCM			
<u> </u>						ļ	<u> </u>	<u> </u>		FBCM		1	
<u> </u>	<u> </u>		My		<u> </u>			ļ		FBCM			
			X July							FBCM	,,,		
<u> </u>	<u> </u>		<u> </u>	Š				<u> </u>		FBCM	<del>.</del>		
<u></u>	<u> </u>				L	<u> </u>				FBCM			****
					<u> </u>	<u> </u>	<u> </u>	<u> </u>		FBCM			
Ì				<u>.</u>						FBCM			
(Total	al)				80%					,			
Asb	estos F	bers Prese	nt		Nonasbe	stos Fibe	rs Presei	nt	Filter Type: A	(CE		TEM Voltage (kv): 100	
-	Chryso					Gypsum			Filter Size (m	m): <u>25</u>	N	Augnification (X): 19K	
_	Anthop				_	Glass			EFA (sq.mm)	385	_	Opening Area: mm <sup>2</sup>	
· — ·	\mosite >rocido				=	Cellulose Organic F		l	Filter Pore Siz	e (micron): 0	0.45	SO Required:	
1 ==	\ctinoli				_	Fibers Co		L	Sample Vo		<u>860</u>	GO Analyzed: 7	_
	remol							1	Grid Box # Filter Accep	2710-84		w <u>J</u> Column <u>1.1</u> Yes  No	
]				1						n for minetic		168   NO	

Analyst R. PESCADOR

Scope 27-2

Date 4/15/10

Lab ID: 271000038-0002

271000038

Order ID

Received: 06-Apr-10

		IR, Inc. East Superi	ior Street		\$	ample ID:		0510	<del></del> _		24 Hour suits Due	آ
	Sui	ite 260 luth, MN 55				Location:				Wednesd	ay. April 07, 2010 8:58 AM	7
Projec		2 <del>9-</del> 001 mples colle	cted 4/5/201	O				So	ecial Instructions			<u></u>
_			NSD = No St	nichims i	Detected	Structure	Types: { F	= Fiber	r, B = Bundle, C = Clust	er. M = Metrix )	150.0	
	1	1	1000		D	Directoro		IGTH	WIDTH Structur		EDXA	
Grid I.D.	G.O. 1.D.	Structure Number	Non Asbestos		Amphi	Sketch	≥ 0.5 µm < 5 µm	չ 5 բ։	Type n µm	Negative Number	Chrys.,Amo., Etc	<b>L</b>
1	H3	وام							FBCM	1		
	45	ND							FBC	1		
	H7	MÞ							FBCM	1		``` <b>`</b> ``
	45	No							FBC	1		
2.	ΣG	Np	"-						FBC	A		
	E8	ND			-				FBCA	A		
	210	No	1						FBCA	1		
_				14.					FBC	1		,
				***					FBCN	1		
	_								FBCN	1		
									FBCN	1		
									FBCN	1		_
					·				FBCN	f .		
				22-					FBCA	1		_
				W.		T.,			FBCN	1		-;
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-					FBCN	1		
								14404	FBCN	!		
									FBCM	!		
(Tota	1)				Sept.						7447	
Chrysotile Anthophyllite Armosite Crocidolite						stos Fiber Gypsum Glass Cellulose Organic Fi		F	ilter Type: MCE ilter Size (mm): 25 iFA (sq.mm): 385 ilter Pore Size (micron): Sample Volume (L):	Grid	TEM Voltage (kv): 100 lagnification (X): 19K Opening Area: 7 GO Analyzed: 7	
Actinolite Tremolite Analyst R. Price Ool					Grid Box # #7/D-1  Grid Box # #7/D-1  Filter Accepted for /  If no, reason for reje					A^/3 Ro	w Column 3	<u>#</u>
•												`.

~ K

Lab II	: 271	000038-00	03			Ord	er ID	2710	00038			: 06-Apr-10
		R, Inc.			s	ample ID:	P-DT-04	0510		_	TAT:	24 Hour
Addres	Sui	East Superi te 260 uth, MN 550			S	Location:	F-101-104	,0310			Wednesda	suits Due y. April 07, 2010
												2:58 AM
Projec	st: 93/ Sa	29-001 mples collec	cted 4/5/201	0				Spe	ciel instruction	5		
							·		<u> </u>			
			NSD = No St			Structure '			B ≃ Bundle, C ≓			EDXA
Grid 1,D,	G.O. I.D.	Structure Number	Non Asbestos		VATION Amphi	Sketch	LE.N ≥ 0.5 μm < 5 μm	!GTH    ≥5μπ	,	ructure Type	SAED Negative Number	Chrys.,Amo., Etc.
	76	כולא	144444	Ollings	7 111,241			2001		всм	,,,,	
<del> </del>	F4	ND				<u> </u>			F	всм		
	f2	ND ND							F	всм		
2	רק	ND		Crac.					F	ВСМ	₩	
<del>-</del> -	DS	ND	1185-11			<del>                                     </del>		-	F	ВСМ	• • • • • • • • • • • • • • • • • • • •	,
	P3	ND				-			F	всм		
	DI	ND				<del>                                     </del>			F	всм		
<del> </del>	-			ļ.——	<del></del>				F	всм		
						<del>                                     </del>			F	ВСМ	1	
				<del>                                     </del>					F	всм	"	
<del>                                     </del>	-								F	всм		, , , , , , , , , , , , , , , , , , , ,
		<del></del>						-	F	BCM		
	<del> </del>			Pro-		<u> </u>		<del></del>	F	BCM		
	-		_	No.	<b>1</b>	-		-		всм		
·	<b> </b>						<b> </b>	<u> </u>	<del> </del>	всм		
	<del>                                     </del>				<del> </del>				F	всм		
					<u> </u>		<del>                                     </del>		***************************************	ВСМ		
-	-			-		<del> </del>			F	ВСМ	_	
(Tota	I	-					-					///
<u> </u>		ibers Prese	nt			stos Fiber	s Preser	t F	ilter Type: MCE		,	TEM Voltage (kv): 100
	hrysol					Gypsum	. , , , , , , , , , , ,	1	ilter Size (mm): 2	25		lagnification (X): 19K
	n(hopi					Glass		1	FA (sq.mm): 385		Grid	Opening Area: mm²
	mosite					Cellulose		F	ilter Pore Size (m	nicron): 0	-	O Required: 7
	rocido				= '	Organic Fi Fibers Co			Sample Volum		894	GO Analyzed: 1
	remoli				(=)	ribers Co	ntaining		3rid Box # 271 liter Accepted			wColumn _5_C Yes No
								1	f no, reason for	rejectk	xn:	
Απρίνο	, A.	PESCHOOP			Scope	27-2		Date	4/15/10			

Lab ID: 271000038-0004 Client: EMR, Inc.

Address: 11 East Superior Street

Suite 260 Duluth, MN 55802

Project: 9329-001

Samples collected 4/5/2010

Order ID 271000038

5-ample ID: P-CP-040510

Location:

Received: 06-Apr-10 TAT: 24 Hour

Results Due Wednesday, April 07, 2010

8:58 AM

Special Instructions

			NSD = No St	ructures L	Detected	Structure	Types: { F	≖ Fiber	r, B = Bundle,	C = Cluster,	M = Matrix }	
Grid	G.O.	Structure	Non	OBSER	D VATION		LEN ≥ 0.5 µm	igth 	WIDTH	Structure Type	SAED Negative	EDXA
1.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	<b>≺5μm</b>	≥5 µr	ıı hw		Number	Chrys.,Amo., Etc.
L	FS	No								FBCM		
	F7	ND								FBCM		
	F)	ND								FBCM	*	
2	F4	No								FBCM		
	FL	ND							<u> </u>	FBCM	····	
	F8	ND								FBCM		
	F1@	ND								FBCM		
\				,						FBCM		
										FBCM		
										FBCM		,,
										FBCM		
										FBCM		1.413
			\@p							FBCM		West
			XX 18/4				.,,=			FBCM		
L									4	FBCM		
										FBCM		
										FBCM	12112	
										FBCM		
(Tota	l)						1					پريو
	estos F chrysot anthoph mosite crocido actinolit remolif	yllite lite e	nt			stos Fiber Gypsum Glass Cellulose Organic Fi Fibers Cor	bers	F	ilter Type: M ilter Size (mm iFA (sq.mm): ilter Pore Size Sample Voi Grid Box # Filter Accept If no, reason	n): 25 385 (micron): 0. lume (L.): 2-710-LAUC-1	6rid 45 G 858 3 Rot yels:	TEM Voltage (kv): 100 lagnification (X): 19K
Analys	t R.	LICAPOIL			Scope	27-2		Date	4/15/10			

		1000038-00	105			Ora	ier ID	2710	00038	1		l: 06-Apr-10	5
		IR, Inc.			•	 :ample ID		40510				24 Hour	
Addres		East Superi	ior Street		**	Location:		105 (0			Re	sults Due	
		ite 260 Iuth, MN 55	802			Loosion					Wednesda	ay, April 07, 2010	
		•									1	B:58 AM	
Proje		29-001								<u> </u>			7
	Sa	mples colle	cted 4/5/201	0				<u>Spe</u>	<u>cial instruc</u>	tions			
		,	NSD = No Si	for a management	-t-otof	Ctorotura	Timph: []	c - Sihor	3 - Symdia	C C Cluster	, M = Matrix )		
	Γ		NSU * NO SI	*****	Detected D	Smucrare	-	NGTH	WIDTH	Structure	SAED	EDXA	
Grid	G.O.	Structure	Non		RVATION		≥ 0,5 µm		***************************************	Туре	Negative		
I.D.	I.D.	Number	Asbestos	Chrys	Amph	Sketch	< 5 µm	≥5 µm	μm		Number	Chrys.,Amo., Et	C.
1	G4	ND								FBCM			
	Gio	ND								FBCM			
	48	NO				1				FBCM			
	T"	ND		***		<b>†</b>	<u> </u>			FBCM			
	GIB	ND					<del> </del>			FBCM			
4	66	ND				<del>                                     </del>			<del></del>	FBCM			
	ER			-									-
$\overline{}$	Elo	NÞ		-		<del> </del>		<b>_</b>	ļ	FBCM			
$\prec$								ļ		FBCM			
	~						<u> </u>			FBCM			
<b></b>								<u> </u>		FBCM			
										FBCM			
										FBCM			
										FBCM			
		•	Za_							FBCM			
			XX.							FBCM			
····						·,				FBCM			
										FBCM			
				7						FBCM		- 4000	_
(Tota	n				West.								4
		ibers Prese	nt			stos Fiber	Preser	~*   FII	iter Type; M	ect:		16/1000 /00/10 10/	
$\overline{}$	hrysoti				_	Gypsum	9   1wo	1	iter Size (mn			TEM Voltage (kv): 100 lagnification (X): 19K	
-	nthoph					Glass		- 1	iter size (mn FA (sq.mm) <u>:</u>				D/3
	mosite	•			=	Cellulose			_	:e (micron): 0.	_	O Required: 7	
	rocidol				(4)	Organic Fi	ibers		Sample Vo	_	916	GO Analyzed: 7	_
=	ctinolit				<b>(5)</b>	Fibers Cor	ntaining			#710-ZALL		w <u>K</u> Column 3	1.4
T	remolit	te								ted for Anal		Yes No	ستسا
				1						n for rejectio			

Analyst R. PESCAPER

Scope 27-Z

Date 4/15/10

AHERA7.9.0

Page 6 of 8

		R, Inc.	06			Ord	er ID	2710	00038			: 06-Apr-10 24 Hour	
	s: 11 Sui	East Superi ite 260 luth, MN 55			S	emple ID: Location:		09W040	0510 :		<u>Re</u> Wednesda	sults Due ly. April 07, 2010	
Projec		29-001 mpies colle	cted 4/5/201	0				Spe	cial instruc	tions		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	<u></u>
<del></del>			NSD = No St	ructuras	Detected	Structure	Types: 4 F	= Fiber	B ≒ Bundle.	C = Cluster	, M = Matrix }		∾ است
Grid	G,O.	Structure	Non	Б	D			IGTH	WIDTH	Structure Type	SAED Negative	EDXA	
I,D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥5 µm	μm		Number	Chrys.,Amo., Etc	<u>.</u>
1	14	NB								FBCM			
	<u> </u>	ND						_		FBCM			
2	FI	NO								FBCM			
	F3	NO							<u> </u>	FBCM		10.00	
						<u></u>				FBCM			
L`	_									FBCM			
										FBCM			٠
									<u> </u>	FBCM		<u> </u>	
										FBCM			
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										FBCM			
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				To.						FBCM			
										FBCM			
										FBCM	"		
					7					FBCM		-	
										FBCM			
										FBCM			
(Tota	l)				8000								Ŷ
		ibers Prese	nt		11	stos Fiber	s Preser	ıı Fil	ter Type: M	CE		TEM Voltage (kv): 100	
	hrysot					Gypsum		FI	ter Size (mn	n): <u>25</u>		lagnification (X): 19K	
	nthopt	-			=	Glass Cellulana		EF	A (sq.mm) <u>:</u>	385		Opening Area: 0,015	
	mosite rocido					Cellulose Organic Fi	bers			e (micron): <u>0</u>		O Required:	
1 🖳	ctinolit					Fibers Cor			Sample Vo		2772	GO Analyzed:	_
] □ τ	remoli	te								<i><u>ਟੋ7ਾਰ- ਣੁਘਾਨੇ</u></i> ted for Ana		w <u>K</u> Column <u>s</u> Yes	<u>@_</u>
										ica ioi Ana i for rejectio			_
Analys	· K	PESCAPOR			Scope	27-2		Date	4/15/10				

EMSL Analytical, Inc., 107 West 4th Street, Libby, MT 59923

Lab III Client		1000038-00 R, Inc.	07		"		e <u>r ID</u>		000038		06-Apr-10 24 Hour
•	s: 11 Sui	East Superi te 260 luth, MN 55			S	emple ID: Location:		1 <u>E</u> 0405	110	Re Wednesda	sults Due v. April 07, 2010 :58 AM
Projec	zt: 93: Sa.	29-001 mples colle	cted 4/5/201	0				Spe	ecial Instructions		
			NSD = No St	ructures i	Detected	Structure	Types: { F	= Fiber,	B = Bundle, C = Cluste	r, M = Metrix )	
Grid	G.O.	Structure	Non	OBSER	D VATION		≥ 0.5 µm		WIDTH Structure Type	Negative	EDXA
I.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥5µm		Number	Chrys.,Amo., Etc.
<u> </u>	#4	ND						-	FBCM		
	HG	ND			<u> </u>			ļ	FBCM	<u>i</u>	
2	#	ND				· 	ļ	ļ <u>.</u>	FBCM		
	A+	<b>ND</b>				<u> </u>	<u> </u>		FBCM	į.	, <del>, , , , , , , , , , , , , , , , , , </del>
1									FBCM		
						1			FBCM		
									FBCM	:	
									FBCM		
									FBCM		***
									FBCM		
									FBCM		
'				7					FBCM	:	
				12/11					FBCM		). #16 iii
				<b>V</b> 1/4	2	<del></del>			FBCM		
	-	<u> </u>			7		·	_	FBCM		
		<del> </del>			1	<del></del>	<del>                                     </del>	ļ	FBCM	<u> </u>	
							1		FBCM	1	
				:					FBCM		
(Tota	_							<u> </u>			
		ibers Prese	nt			stos Fiber	s Prèser		iter Type: MCE		EM Voltage (kv): 100
	hrysot nthoph				-	Gypsum Glass		- 1	ilter Size (mm): 25	<del></del>	egnification (X): 19K
	mosite	-				Cellulose			FA (aq.mm) <u>: 385</u>		Opening Area: mm*
	rocido				`	Organic Fi	bers	- 1	Iter Pore Size (micron):		O Required: 4
<u></u> □ A	ctinolit	e .				Fibers Co			Sample Volume (L):	2765	GO Analyzed: 21
ПТ	remoli	e						ļF	Filter Accepted for Ana	alysis: 🗾	Yes No .
,,	^	<b>4</b> 4 4							no, reason for rejecti	on:	
Analys	t 18.	Pescador			Scope	<u>_ 27~3</u>	ζ	Date	4/15/10	:	

Lab ID: 271000038-0008 271000038 Received: 08-Apr-10 Order ID TAT: 24 Hour Client EMR, Inc. Sample ID: BK-040510 Address: 11 East Superior Street Results Due Location: Suite 260 Wednesday, April 07, 2010 Duluth, MN 55802 8:58 AM Project: 9329-001 Samples collected 4/5/2010 Special Instructions NSD = No Structures Detected Structure Types: (F = Fiber, B \* Bundle, C = Cluster, M \* Matrix) EDXA LENGTH WIDTH Structure SAED ΕD **OBSERVATION** ≥ 0.5 µm Type Negative Grid G.Q. Structure Non Chrys., Amo., Etc. I.D. Number Asbestos Sketch μm Number f.D. Chrys Amphi < 5 µm ≥5µm FBCM **910** N۵ FBCM NO Dİ FBCM ΝD Dپ **FBCM** 24 NO FBCM M FBCM NP No FBCM FBCM ND FBCM No FBCM ۵لا ھام FBCM FBCM FBCM **FBCM** FBCM FBCM FBCM **FBCM** (Total) Asbestos Fibers Present Nonasbestos Fibers Present Filter Type: MCE TEM Voltage (kv): 100 Chrysotile (1) Gypsum Magnification (X): 19K Filter Size (mm): 25 (2) Glass Anthophyllite EFA (sq.mm): 385 Grid Opening Area: mm² Amosite (3) Cellulose GO Required: Filter Pore Size (micron): 0.45 Crockdolite (4) Organic Fibers GO Analyzed: 10 Sample Volume (L): Actinolite (5) Fibers Containing Row \_L\_\_Column 34 Grid Box # 27/0- EMR-13 ີ Tremolite Filter Accepted for Analysis: Yes No If no, reason for rejection:

Analyst

A. PESCADOR

\$cop€

Date

415/10

		Asbestos	Fiber Ans F	nlysis t EPA 40	y Tran	smissio Part 763	n Elect 3 Appe	ron N ndix	Microscop A to Subj	y (TEM) part E	Perform	ed by
Lab II	-					<u>Org</u>	erID 2	71600	0038	l	Receive	
Cilen	ti En	ir, Inc.			Ş	ample ID:	,, , ,			, -	TA	<u>r:</u>
Addres	<b>s</b> :					Location:					E	Results Due
- Demini	- A3	00-001										
Proje	æ Yə	29-001						S	ecial instruc	120s		
												-
			NSD = No Sh	ructures L	Defected	Structure 1			8 = Bundle, C	= Cluster, f		
Grid	G.O.	Structure	Non		D VATION		LEN ≥0.5µm	WOTH I	WIDTH	Structure Type	SAÈD Negative	EDXA
J.D.	1.D.	Number	Asbestos		Amphi	Sketch	<5µm	≥5 µ	ım µm		Number	Chrys., Amo., Etc.
1	29	V20						ļ		FBCM	<u> </u>	
	77	A)D					ļ	<u> </u>		FBCM		
	DS.	No		<u></u>	<u> </u>		ļ			FBCM	ļ <u>i</u>	
	93	No							ļ	FBCM		
_	14	No			<u> </u>			<u> </u>	_	FBCM		,,
2	<u>/z</u> _	₩.							<u> </u>	FBCM		
	C#	Νb					ļ			FBCM		
	<u>c</u>	ND						<u> </u>		FBCM	<u> </u>	
	CE_	NO.						<u> </u>		FBCM		
	40	Νb							<u> </u>	FBCM		
$\geq$										FBCM		
	_			****				<u></u>		FBCM		
								<u> </u>		FBCM		
								<u></u>		FBCM		
			At the Lo							FBCM		
			O TIME		,					FBCM		
										FBCM		
										FBCM		
(Tota	)											
		bers Preser	nt			stos Fiber	s Presen	rt (	Filter Type: MC	E		TEM Vottage (kv): 100
<del></del>	hrysoti					Gypsum		] •	Filter Size (mm	): 25		Magnification (X): 19K
	nthoph mosite	-		į	-	Glass Cellulose		1	EFA (8q.mm) <u>: (</u>	185		d Opening Area: 0.013mm
	rocido				=	Organic Fi	bers	F	liter Pore Size	_		GO Required:
	ctinolit	ė		- 1	_	Fibers Cor		$\vdash$	Sample Vol		1323	GO Analyzed: 16
□ U	remolit	e						1	Grid Box # . Filter Accept			OW L Column 5.6
								ı	If no, reason			, , , , , , , , , , , , , , , , , , ,
Analys		. Pesengoo	Ų.		Scope	27-2		Date	4/15/10			



## Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000048

EMSL ANALYTICAL, INC 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				SL-Bill to: Same [] [	
Street: 11 E. Superio			1	ng requires written authoriza	
City: Duluth		nte/Province: MN	Zip/Postal Code: 5		ıntry: USA
Report To (Name): S			Fax #: (218) 625-2		may. OSA
Telephone #: (218)				arney@emr-inc.com	
Project Name/Number			Linaii Audiess. C	arneyweini-inc.com	
Please Provide Resu		mail Purchase Order	r: [	U.S. State Samples Tal	ken: Montana
		urnaround Time (TAT)	Options* - Please C		
	Hour 🛛 🖾 24 H	our 48 Hour	72 Hour	96 Hour 1 Wee	k 🔲 2 Week
an authorization f	ours, please call ahead to orm for this service. Ana	o schedule.*There is a premiu Ilvsis completed in accordance	m charge for 3 Hour TEM with EMSL's Terms and	AHERA or EPA Level II TAT. Conditions located in the Ana	You will be asked to sign
PCM - Air			5hr TAT (AHERA only)		yttodi i rice Guide.
□ NIOSH 7400		AHERA 40 CFI		☐ Microvac - ASTN	1 D 5755
☐ w/ OSHA 8hr. TW/	A	☐ NIOSH 7402		☐ Wipe - ASTM D6	480
PLM - Bulk (reporting	g limit)	☐ EPA Level II		☐ Carpet Sonicatio	n (EPA 600/J-93/167)
☐ PLM EPA 600/R-93	3/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermicu	
☐ PLM EPA NOB (<1	%)	TEM - Bulk	- A		- A (0.25% sensitivity)
Point Count		☐ TEM EPA NOB		<u> </u>	- B (0.1% sensitivity)
☐ 400 (<0.25%) ☐ 10	000 (<0.1%)	☐ NYS NOB 198.4	(non-friable-NY)	☐ TEM CARB 435	- B (0.1% sensitivity)
Point Count w/Gravimo		☐ Chatfield SOP			- C (0.01% sensitivity)
<u> </u>	, ,	☐ TEM Mass Anal	ysis-EPA 600 sec. 2.	5 EPA Protocol (Se	emi-Quantitative)
NYS 198.1 (friable	,	TEM - Water: EPA		☐ EPA Protocol (Q	uantitative)
☐ NYS 198.6 NOB (r	non-friable-NY)	· —	Waste Drinking	Other:	
☐ NIOSH 9002 (<1%)			Waste  Drinking		
	☐ Check Fo	or Positive Stop - Cle	arly Identify Homo	ogenous Group	
Samplers Name: Mike	e Mckay		Samplers Signatu	re: Mile	McKay
Sample #		Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TB-040610	Trevor Beers-Plug	ger-MP-1322.06-1322.3	8 R/Fam	624	4-6-10-07:49-13:01
P-CP-040610	Carson Poore-Tra	ckman-MP-1322.06-132	2.38	760	4-6-10-07:52-14:12
P-SH-040610	Sean Hunter-Mach	ine Operator-MP-1322.	06-1322.38	758	4-6-10-07:57-14:16
P-RF-040610	Randy Finley-Grou	ıp-5- <b>M</b> P-1322.06-1322.3	8	776	4-6-10-07:58-14:26
P-RT-040610	Ryan Tucker-Weld	er-MP-1322.06-1322.38		788	4-6-10-07:56-14:30
S-1322.06W040610	MP-1322.06-1322.3	8-Westend.		2226	4-6-10-08:39-13:57
S-1322.07E040610	MP-1322.06-1322.3	8-Eastend.		2212	4-6-10-08:43-13:59
BK-040610	BK-Opened			0	4-6-10
Client Sample # (s):	Mike Mckay			Total # of Samples:	8
Relinquished (Client):	Mike McKay)	Date:	4-7-10	Time	: 15:19
Received (Lab):	Men	Date:	4/7/10	Time	: 15:19h
Comments/Special Ins	structions://		14-1		, ,

Control Designed Asharia COO DO 440D040



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID: Customer PO: EMRI78

11 East Superior Street

Suite 260

Received: EMSL Order:

04/07/10 3:19 PM

**Duluth, MN 55802** 

271000048

Fax:

(218) 625-2337

Phone: (218) 625-2332

EMSL Proj:

Project: 9329-001

Analysis Date:

4/22/2010

Samples collected 040610

Sampling Date:

4/6/2010

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

C 1	Location	Volume	Area Analyzed	Non	Asbestos	# Structures	Analytical Sensitivity	Asbo Concen	
Sample	Location	(Liters)	(m m²)	Asb	Type(s)	$\geq 0.5\mu < 5\mu \geq 5\mu$	(S/cc)	(S/mm²)	(S/cc)
P-TB-040610 271000048-0001		624.00	0.1300		None Dete	ected	0.0047	<7.70	<0.0047
P-CP-040610 271000048-0002		760.00	0.1040		None Dete	ected	0.0049	<9.60	<0.0049
P-SH-040610 271000048-0003		758.00	0.1040	,	None Dete	ected	0.0049	<9.60	<0.0049
P-RF-040610 271000048-0004		776.00	0.1040		None Dete	ected	0.0048	<9.60	<0.0048
P-RT-040610 271000048-0005		788.00			Overloade	d	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<del></del>	
S- 1322.06W040610 271000048-0006	,	2226.00	0.0520		None Dete	ected	0.0033	<19.00	<0.0033
S- 1322.07E040610 271000048-0007		2212.00	0.0520		None Dete	cted	0.0033	<19.00	<0.0033
BK-040610 271000048-0008			0.1300		None Dete	cted		<7.70	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

**Duluth, MN 55802** 

(218) 625-2337 9329-001

Fax:

Project:

Samples collected 040610

Phone: (218) 625-2332

EMSL Proj:

Customer ID:

Customer PO:

EMSL Order:

Received:

Analysis Date:

4/22/2010

**EMR178** 

271000048

04/07/10 3:19 PM

Sampling Date:

4/6/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep)**

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ ≥5μ	Analytical Sensitivity (S/cc)	Total A Concen (S/mm²)	
P-RT-040610 271000048-0005		788.00	0.1300		None Dete	ected	0.0350	<72.00	<0.0350

Analyst(s)

Roy Pescador (1)

R. K. Mahoney, Laboratory Manager or other approved signatory

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT

## INTERNAL CHAIN OF CUSTODY

4/7/2010 2:12:37 PM

Order ID: 271000042

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

9329-001 Samples collected 04/06/10 Customer ID:

Customer PO:

Received:

EMRI78

271000042

04/07/10 10:35 AM

EMSL Order:

EMSL Proj ID:

Cust COC ID

**Test: TEM AHERA**  **Matrix** 

Phone: (218) 625-2332

TAT:

24 Hour

Qty:

8

Acct Sts:

Sisprsn: rdemaio

Logged:

rpescador

Date: 4/7/10

BillingFrequency:

<u>Sample</u> Condition:

Air

✓ Acceptable

☐ Unacceptable

Comments

☐ Exempt from prep charge

☐ Exempt from lab opening fee

☐ Exempt from layer/aliquot charges

Prepped:

Date:

Analyzed: Data Entry:

RKM RKon Date: Date:

Screened:

Date:

Mailed:

Date:

#### **Internal Comment**

**Special Instructions** 

Order ID	Lab Sample #	Cust. Sample # Location	Due Date
271000042	271000042-0001	P-BW-040610 Damaged	4/8/2010 10:35:00 AM
271000042	271000042-0002	P-JB-040610	4/8/2010 10:35:00 AM
271000042	271000042-0003	P-NS-040610	4/8/2010 10:35:00 AM
271000042	271000042-0004	P-CB-040610 OL 15mL, 2nd dilution	4/8/2010 10:35:00 AM
271000042	271000042-0005	P-TA-040610 Damaged	4/8/2010 10:35:00 AM
271000042	271000042-0006	S-1309W-040610	4/8/2010 10:35:00 AM
271000042	271000042-0007	S-1309E-040610	4/8/2010 10:35:00 AM
271000042	271000042-0008	CB-Open-040610	4/8/2010 10:35:00 AM

2710-EMR-173 (P-R) /2710-EMR-ARC-14 (K)

1B,RP

### INTERNAL CHAIN OF CUSTODY

4/16/2010 8:22:57 AM

Order ID: 271000042

Attn:

Fax:

Project:

Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Duluth, MN 55802

(218) 625-2337

Samples collected 04/06/10

**Internal Comment** 

9329-001

Phone: (218) 625-2332

EMSL Order:

Received:

Customer ID:

Customer PO:

EMSL Proj ID:

**Cust COC ID** 

271000042

04/07/10 10:35 AM

EMRI78

Test: TEM AHERA (Indirect) Matrix Air	TAT: 24 Hour	<u>Qty:</u> 1
Acct Sts: Slsprsn: rdemalo BillingFrequency:	Logged:       rpescador         Sample       ☐ Acceptable         Condition:       ☐ Unacceptable         Comments	<u>Date:</u> 4/7/2010
☐ Exempt from prep charge		
☐ Exempt from lab opening fee	Prepped:	<u>Date:</u>
☐ Exempt from layer/aliquot charges	Analyzed:	Date:
	Data Entry:	Date:
	Screened:	Date:
Special Instructions	Mailed:	Date:

Order ID Lab Sample # Cust. Sample # Location **Due Date** 271000042 271000042-0004 P-CB-040610 4/8/2010 10:35:00 AM



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

2710000 42

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

	Company : EMR, Inc				Bill to: Same D		
	Street: 11 E. Superio				equires written authorizat		
	City: Duluth		Province: MN	Zip/Postal Code: 5580		ntry: USA	
	Report To (Name): S		10411108: 14114	Fax #: (218) 625-2337		nuy. USA	
	Telephone #: (218) 6			Email Address: carn	ey@emr-inc.com		
	Project Name/Number		il Purchase Order	. 111	S. State Samples Tak	on: Montono	
				Options* – Please Che		en. Montana	
		Hour 24 Hour	48 Hour	72 Hour 9	6 Hour 1 Wee	k 2 Week	
	*For TEM Air 3 hours/6 h	ours, please call ahead to sch orm for this service.     Analysis	nedule.*There is a premium	m charge for 3 Hour TEM AH	ERA or EPA Level II TAT.	You will be asked to sign	
	PCM - Air	That is a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second		5hr TAT (AHERA only)	TEM- Dust	rical Frice Guide.	
	☐ NIOSH 7400		AHERA 40 CFF		☐ Microvac - ASTM	D 5755	
	☐ w/ OSHA 8hr. TW/	4	☐ NIOSH 7402		☐ Wipe - ASTM D6		
	PLM - Bulk (reporting	limit)	☐ EPA Level II		☐ Carpet Sonication	(EPA 600/J-93/167)	
	☐ PLM EPA 600/R-93	3/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermicul		
	☐ PLM EPA NOB (<1	%)	TEM - Bulk		☐ PLM CARB 435 -	A (0.25% sensitivity)	
	Point Count		☐ TEM EPA NOB		☐ PLM CARB 435 -		
	☐ 400 (<0.25%) ☐ 10		☐ NYS NOB 198.4	l (non-friable-NY)	☐ TEM CARB 435 -		
	Point Count w/Gravime		Chatfield SOP	. ==	☐ TEM CARB 435 - C (0.01% sensitivit		
	☐ 400 (<0.25%) ☐ 10	• •		ysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)		
	NYS 198.1 (friable	•	TEM - Water: EPA		EPA Protocol (Quantitative)		
	☐ NYS 198.6 NOB (n	•		Waste Drinking	Other:		
	☐ NIOSH 9002 (<1%			Waste Drinking	Jenous Group		
		Check For P	ositive Stop - Cie	arly Identify Homoge	enous Group		
į	Samplers Name: Ama	anda Thornton-DeWitt		Samplers Signature:			
	Sample #		Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
Dq	maged P-BW-040610	Brant Weisenburger- 1309.20-1309.54/ 1308	Clipper Operator/Wa	alking Track-MP	870	04-06-10/0854- 1625	
		Jermel Brown-Cribbe		20-1309.54/ 1308.74-	070	04-06-10 / 0856-	
	P-JB-040610 ~	1308.92			884	1640	
	P-NS-040610	Niles Singer- Asst. Fo 1309.54/ 1308.74-1308		ck- MP1309.20-	872	04-06-10/ 0858- 1630	
ı		Chris Bradford- Truck		- MP 1309.20-	072	04-06-10/ 0900-	
	P-CB-040610 V	1309.54/ 1308.74-1308			860	1620	
	P-TA-040610 ~	Tyler Annala- Group 5 1309.20-1309.54/ 1308	Machine Operator/ 3.74-1308.92	SARS Machine- MP	865	04-06-10/ 0902- 1627	
	S-1309W-040610 ~	Stationary Pump- Wes	st End- MP1309		1806	04-06-10/ 0930- 1336	
ŀ	S-1309E-040610	Stationary Pump-East E	nd- MP 1309		1816	04-06-10/ 0920-1336	
ļ	CB-Open-040610	Control Blank- Opened			0	04-06-10/ 1700	
ŀ	Client Sample # (s):	Amanda Thornton-	DeWitt -	•	Total # of Samples:	8	
İ	Relinquished (Client):	Amanda Thornton-	DeWitt Date:	04-07-10	Time	: 1035	
-	Received (Lab): Comments/Special In	R.K. Waho structions:	Date:	4/7/10	Time	: 1035	
L							



## **EMSL27 INDIRECT PREPARATION RECORD**

EMSL Analytical Inc., Libby, MT

Order ID: 271000042

Date: 4-12-10

Circle One: (TEM Air)

TEM Dust TEM Wipes PCM

EFA: 360 mm² Prepared By: KB

	-		Ashed Samples	S	N	on-AshedSamp	iles	T -	·	CarialDilut	ionFiltration			-
	ateri	Res	uspension with A			spension without		2n	dresuspensio			resuspensio	nn.	ا ة
Sample #	Loose Material	Filter Fraction	Resuspended volume	Vol.applied to filter		Resuspended volume			Paguanand	Vol.applied to filter			Vol.applied to filter	Prepared for Analysis
	Y/N	fraction	mL_	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
P-CB-040610	N				1	100	10	10	100	10				
		-					80			15				Y
					·					25				
										50				
MB					NA	100	100							Y
					g principles services and the services					ad a		17 M	13.	•
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107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Suite 260

Fax:

Project:

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

9329-001 Samples collected 04/06/10

EMSL Proj:

Received:

Analysis Date:

Customer ID:

EMSL Order:

Customer PO:

4/16/2010

EMRI78

271000042

04/07/10 10:35 AM

Sampling Date:

4/6/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

				•					
Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)			Analytical Sensitivity (S/cc)	Concen	estos tration (S/cc)
	870.00			Filter Dam			()	(Girinia )	(5/00)
	884.00	0.0910		None Dete	ected	_	0.0048	<11.00	<0.0048
	872.00	0.0910		None Dete	ected		0.0049	<11.00	<0.0049
	865.00		_	Filter Dam	aged				
	1806.00	0.0524		None Dete	cted		0.0041	<19.00	<0.0041
	1816.00	0.0524		None Dete	cted		0.0040	<19.00	<0.0040
		0.1310		None Dete	cted		3:	<7.60	
	Location	Location (Liters)   870.00   884.00   872.00   865.00   1806.00	Location         Volume (Liters)         Analyzed (mm²)           870.00         870.00           884.00         0.0910           872.00         0.0910           865.00         1806.00           1816.00         0.0524	Location         Volume (Liters)         Analyzed (mm²)         Non (mm²)         Asb           870.00         870.00         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910         0.0910	Location         Volume (Liters)         Analyzed (mm²)         Non Asbestos Type(s)           870.00         870.00         Filter Dame           884.00         0.0910         None Dete           872.00         0.0910         None Dete           865.00         Filter Dame           1806.00         0.0524         None Dete           1816.00         0.0524         None Dete	LocationVolume (Liters)Analyzed ( $mm^2$ )Non Asbestos Type( $s$ )**Structure.**870.00Filter Damaged884.000.0910None Detected872.000.0910None Detected865.00Filter Damaged1806.000.0524None Detected1816.000.0524None Detected	LocationVolume (Liters)Analyzed (mm²)Non Asbestos Type(s)# Structures870.00Filter Damaged884.000.0910None Detected872.000.0910None Detected865.00Filter Damaged1806.000.0524None Detected1816.000.0524None Detected	Location         Volume (Liters)         Analyzed (mm²)         Non Asb Type(s)         Asb Type(s)         Sensitivity $\ge 0.5\mu < 5\mu$ Sensitivity (S/cc)           870.00         870.00         Filter Damaged           884.00         0.0910         None Detected         0.0048           872.00         0.0910         None Detected         0.0049           865.00         Filter Damaged           1806.00         0.0524         None Detected         0.0041           1816.00         0.0524         None Detected         0.0040	Location         Volume (Liters)         Analyzed (mm²)         Non Asbestos Type(s)         # Structures $\ge 0.5\mu < 5\mu$ Sensitivity (S/cc)         Concent (S/mm²)           870.00         Filter Damaged           884.00         0.0910         None Detected         0.0048         <11.00

Analyst(s)

Ron Mahoney (5)

K. Mahoney, Laboratery Manager or other approved signatory

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107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Samples collected 04/06/10

Suite 260

Fax:

Project:

**Duluth, MN 55802** 

(218) 625-2337 9329-001

Phone: (218) 625-2332

EMSL Proj:

Analysis Date:

Customer ID:

Customer PO:

EMSL Order:

Received:

4/16/2010

EMRI78

271000042

04/07/10 10:35 AM

Sampling Date:

4/6/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep)**

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Sensitivity (S/cc)	Total A. Concen (S/mm²)	
P-CB-040610 271000042-0004		861.00	0.1300		None Dete	ected	0.2100	<480.00	<0.2100

Analyst(s)

Ron Mahoney (1)

R. K. Mahoney, Laboratory Manager or other approved signatory

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT

		1000042-00 IR, Inc.	001				der ID		000042	]		l: 07-Apr-10
	Su Du	East Super ite 260 luth, MN 55 29-001			\$	Sample ID Location		)40610			<u>Re</u> Thursday	24 Hour esults Due 7. April 08, 2010 0:35 AM
r rojek			cted 04/06/	10				<u>Sp</u>	ecial Instruc	etions		
ļ			NSD = No S			Structure	Types: { F	= Fiber	, B = Bundle	. C = Cluster,	M = Matrix }	
Grid	G.O.	Structure	Non	OBSER	D VATION		ı	IGTH	WIDTH	Structure	SAED	EDXA
I.D.	I.D.	Number	Asbestos	1	Amphi	Sketch	≥ 0.5 µm < 5 µm	≥5 µn	n µm	Туре	Negative Number	Chrys.,Amo., Etc.
									ļ.,	FBCM		
										FBCM		
			- <u>-</u>	ļ						FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
		_								FBCM		
						_				FBCM		
										FBCM		•
										FBCM		
			·							FBCM		
										FBCM		
										FBCM		
										FBCM		
					$-\Delta$		a/A			FBCM		<u> </u>
						$\Delta M$	ug			FBCM		
					$\mathcal{V}$					FBCM		
(Total)												
Ch An	tos Fib rysotile thophy nosite ocidolit	llite	t	N	(1) (2) (3) (3) (4)	itos Fibers Sypsum Glass Cellulose Organic Fib		Filt EF Filt		): <u>25</u> 385 (micron): <u>0.4</u>	Ma Grid C	EM Voltage (kv): 100 agnification (X): 19K Dening Area: mm² D Required:
Act	tinolite emolite					ibers Con	taining	Gi Fii		ed for Analys	Row	GO Analyzed: Column  es  No

		1000042-00 IR, Inc.	002			Ord	<u>ler ID</u>	2710	00042	]		l: 07-Apr-10
Addres	ss: 11 Su Du	East Super ite 260 luth, MN 55			S	Sample ID: Location:		10610			<u>Re</u> Thursday	24 Hour esults Due v. April 08, 2010 0:35 AM
Proje		29-001 imples colle	cted 04/06/1					<u>Spe</u>	ecial Instruc	tions		
			NSD = No S	tructures l	Detected	Structure	Types: { F	= Fiber,	B = Bundle	, C = Cluster,	M = Matrix }	
Grid	G.O.	Christian	Alam	ORSER	D VATION	-		IGTH	WIDTH	Structure	SAED	EDXA
I.D.	I.D.	Structure Number	Non Asbestos	1	Amphi	Sketch	≥ 0.5 µm < 5 µm	≥5 µm	μm	Туре	Negative Number	Chrys.,Amo., Etc.
	C 3	ND	_	<u> </u>		ļ	Ĺ			FBCM		
	<b>C</b> 5	ND								FBCM		
	c7	NO								FBCM		
	<u> </u>	ND								FBCM	-	
2	C.S	מע								FBCM		
	c5	ND								FBCM		
	C7	ND								FBCM		
										FBCM		
										FBCM		20
				/				_		FBCM		
										FBCM		
						R	4			FBCM		
							7	74		FBCM		
								-		FBCM		
										F-B.C.M		
										FBCM		
										FBCM		
	_ T									FBCM		
(Total	)	0	Ð		, eg., 64 e	3490			3 / 1 / 45 3 / 1 / 45	· · · · · · · · · · · · · · · · · · ·		- 10m
Asbes	stos Fil	pers Presen		N	lonasbes	tos Fibers	Present	Filt	er Type: Mo	CF		EM Voltage (kg): 400
C	nrysotil	е		1	_	ypsum			er Size (mm			EM Voltage (kv): 100 agnification (X): 19K
Ar	nthophy	/llite		ŀ	(2) G			- 1	4 (sq.mm); 3			
	nosite				(3) C	ellulose		1	_	(micron): 0.4		Opening Area: mm² O Required: 7
_	ocidoli				_	rganic Fib			ample Volu	· —		GO Analyzed: 7
	tinolite				∐ (5) F	ibers Conf	taining			27/0 - EmR		_P_Column
III	emolite	•				<del></del>				ed for Analy		
			77.					lf r	no, reason	for rejection		
Analyst			12m		Scope	27-1		Date _	4/16/10			

		1000042 <i>-</i> 0( IR, Inc.	003			Ord	der ID	2710	000042	7	Received	d: 07-Apr-10
Addres	ss: 11 Su	East Super ite 260 luth, MN 55			\$	Sample ID Location		40610			<u>Re</u> Thursday	24 Hour esults Due v. April 08, 2010
			cted 04/06/ <sup>-</sup>	10				<u>Spe</u>	ecial Instruc	tions		
			NSD = No S	tructures i	Detected	Structure	Types: { I	= Fiber,	B = Bundle	, C = Cluster	, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch		NGTH	WIDTH	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
	177	Nn				<u> </u>				FBCM		
	H5	NO								FBCM		
	#3	NO								FBCM		
	171	NO								FBCM		
2	G7	ND								FBCM		
	25	NA								FBCM		
	6-3	Nŋ								FBCM		
										FBCM		
										FBCM		
								_		FBCM		
					/					FBCM		
					X	4				FBCM		
						7	4/			FBCM		
							7			FBCM		
										FBCM		1
										FRCM		
										FBCM	$\overline{}$	
										FBCM		
(Total)		0	Ø	<b>7</b> /-		Section 1					" ' ' ' (S) / (A)	
Asbes	tos Fib	ers Presen		N	lonasbes	tos Fibers	Present	Filte	er Type: MC	e i me i ene	na nad <u>nada</u>	
An An An Cro	nrysotile athophy nosite ocidolit tinolite emolite	llite			(1) G (2) G (3) C (4) O	Sypsum	ers	Filte EFA Filte Sa Gri	er Size (mm): 3 A (sq.mm): 3 er Pore Size ample Volu id Box # 2	): <u>25</u> 885 (micron): <u>0.</u> 4	Ma Grid O 45 G72 2-/3 Row	em Voltage (kv): 100  Ignification (X): 19K  Opening Area: mm²  O Required: 7  GO Analyzed: 7  Column
-		- A //:							o, reason	for rejection		es No
nalyst		RIG	<u> </u>	<del></del>	Scope .	27	<u>-/</u> _	Date _	4/16/	(D		

Lab ID: 271000042-0003

		1000042-00	004			Ore	der ID	27	1000042		Received	f: 07-Apr-10
		IR, Inc.	i C44		5	ـــــا Sample ID	P-CB-(	04061	<u> </u>	_		24 Hour
	Su Du	East Super ite 260 luth, MN 55 29-001				Location		04001	o		<u>Thursda</u>	esults Due v, April 08, 2010 0:35 AM
- Tojo			cted 04/06/					3	Special Instru	ctions		
<u> </u>	<del></del>		NSD = No S			Structure	Types: {	F = Fit	er, B = Bundle	, C = Cluster	, M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Nоп Asbestos	OBSER	ED RVATION	Sketch	≥ 0.5 µm	ı	WIDTH	Structure Type	SAED Negative	EDXA
		110	7.0000100	Ciliys	Amphi	Sketch	< 5 µm	≥5	µm µm	55011	Number	Chrys.,Amo., Etc.
			,	<u> </u>			<del>                                     </del>	+	<del></del>	FBCM		
			, <u>, .</u>		<del> </del>	<del> </del>		+		FBCM		
							<u> </u>	<u> </u>		FBCM		
								-		FBCM		*
	-	· · · · · · · · · · · · · · · · · · ·	<del></del>			<u> </u>		-		FBCM		
								ļ		FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
						,	,	1		FBCM		
						ver loa	id e	d		FBCM		
							i			FBCM		
(Total)						in and the second				111		<u></u>
		ers Presen	t	1	loпasbes	tos Fibers	Presen	it i	Filter Type: M	CE		EM Voltage (kv): 100
	rysotil					Sypsum			ilter Size (mm	): 25		gnification (X): 19K
	thophy nosite	uiite			==	Blass			EFA (sq.mm) <u>:</u>	385		pening Area: mm²
L	ocidolit	e				ellulose Irganic Fib	ore	F	ilter Pore Size	(micron): 0.4	15 GC	Required:
Ac	tinolite			j		ibers Conf		L	Sample Vol	ume (L):	<u>860</u>	GO Analyzed:
Tre	emolite								Grid Box #		Row	
									Filter Accepte	·=		es No
Analyst					Soone		<del>-</del>		If rio, reason	ior rejection	l	

Clien	t: El	71000042-00 MR, Inc.					der ID		000042	]		l: 07-Apr-10 24 Hour
	Sı Dı ct: 9:	l East Super uite 260 uluth, MN 55 329-001	802		\$	Sample ID Location		40610			<u>Re</u> Thursday	esults Due 7. April 08, 2010 0:35 AM
		amples colle	cted 04/06/1	10				<u>Spe</u>	cial Instruc	tions		
		15 ml a	2 of res	عرمهم ک	an Sil	tend.	الالملكية	<i>L</i> .	1.5 ml	atas.	4	
	r		NSD = No S	tructures L	Detected	Structure	Types: { I	= Fiber,	B = Bundle,	C = Cluster,	M = Matrix }	
Grid I.D.	G.O I.D.	Structure Number	Non Asbestos	1	D VATION Amphi	Sketch	<b>LEN</b> ≥ 0.5 μm < 5 μm	NGTH 25 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1_	<u>\( \mathcal{E} \) \</u>	NO					ļ	<u> </u>		FBCM		
	£3	NO				_				FBCM		-
	£5	NO	 							FBCM		
	٤7	NA								FBCM		
_	€9	Na								FBCM		
2	610	NO								FBCM		
	GS)	NO								FBCM		
	<u>G6</u>	NO								FBCM		
	<u>G4</u>	NO				,				FBCM		
	62	ND								FBCM		
	_									FBCM		·
								<del></del>		FBCM		
					Rie	411				FBCM		
]						7/	2/10			FBCM		
						_				FBCM		
										FBCM		
										FBCM		
									·	FBCM		
(Total)		Ð	0		36.	m harring			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		n sak ninga	Walter State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of th
Ch	tos Fi rysoti thoph nosite	bers Presen le		N	(1) G (2) G	tos Fibers typsum tlass ellulose	Present	Filte	er Type: MC er Size (mm) A (sq.mm): 3	85	Ma Grid O	EM Voltage (kv): 100 gnification (X): 19K pening Area: mm²
<u></u>	ocidoli			Ì	_	rganic Fib	ers			(micron): <u>0.4</u>		Required:
	tinolite			[	(5) Fi	ibers Con	taining		ample Volu			GO Analyzed: 10
Tre	emolite	e						Filt	er Accepte	d for Analy: for rejection	sis: X Y	Column
nalyst		R/con		;	Scope .	27-	1	Date _	4/16/10		•	

Lab ID: 271000042-0004

Clien	it: EN	1000042-00 fR, Inc.			_		der ID		000042	]		d: 07-Apr-10 : 24 Hour
	Su Du	East Super ite 260 luth, MN 55 29-001			8	Sample ID Location		40610			<u>Re</u> Thursda	esults Due v. April 08, 2010
			cted 04/06/ <sup>-</sup>	10				<u>Spe</u>	ecial Instruc	etions		
	· ·		NSD = No S	tructures i	Detected	Structure	Types: { F	= Fiber,	B = Bundle	, C = Cluster,	M = Matrix }	
Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	OBSER	D VATION Amphi	Sketch	≥ 0.5 µm	IGTH     ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
_										FBCM		
										FBCM		
										FBCM		
										FBCM		
										FBCM		
						· · · · · · · · · · · · · · · · · · ·				FBCM	<u>-</u>	
										FBCM		
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										FBCM		
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								_		FBCM		
										FBCM		
										FBCM		<u> </u>
										FBCM		
			···							FBCM		4
							ma	go		FBCM		· · · · · · · · · · · · · · · · · · ·
						]) q				FBCM		
(Total)											Mariana,	
		ers Presen	t	N	lonasbes	tos Fibers	Present	Filt	er Type: M	Œ	T	EM Voltage (kv): 100
An An	nrysotil hthophy nosite ocidoli	/llite			(2) G	iypsum ilass ellulose rganic Fil	pers	EF/ Filte		385 (micron): 0.4	Grid C	agnification (X): 19K  Dening Area: mm²  D Required:
Tre	tinolite emolite				(5) F	ibers Con	taining	Gr Fil			Row	GO Analyzed:Column /es
nalyst					Scope .			Date _				

		1000042-00 IR, Inc.	006				ier ID		000042	]		i: 07-Apr-10 : 24 Hour
	Su Du	East Super ite 260 luth, MN 55			S	Sample ID: Location:		W-0406	10		<u>Re</u> Thursda	24 Hour Psults Due V. April 08, 2010 0:35 AM
rioje		29-001 mples colle	cted 04/06/1						ecial Instruc			
	<del>-</del>	<del></del>	NSD = No Si			Structure				C = Cluster,	M = Matrix }	
Grid	G.O.	Structure	Non	E OBSER	D VATION		<b>LEN</b> ≥ 0.5 µm	IGTH I	WIDTH	Structure Type	SAED	EDXA
I.D.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	  ≥5 μm	μm	, ,,,,,,	Negative Number	Chrys.,Amo., Etc.
	C4	NO								FBCM		
_	وي	NP								FBCM		
2	H6	NO								FBCM		
	44	ND				_		-		FBCM		
										FBCM		
								-		FBCM		
										FBCM		
										FBCM		
					T C	(h)	-			FBCM		
						Z	611	_		FBCM	·	
							4			FBCM		
_										FBCM		
										FBCM		
										FBCM		
							-			FBCM		
										FBCM	-	
										FBCM		<del>\</del>
										FBCM		
(Total)					Therefore the second		-				1 1 7 9 1 1	<u> </u>
		ers Presen	t	IN	onasbes	tos Fibers	Present	Eite	er Type: MC	· · · · · · · · · · · · · · · · · · ·		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
Ch	rysotile	е				ypsum			er Size (mm			EM Voltage (kv): 100
	thophy	Ilite			(2) G				A (sq.mm): 3			agnification (X): 19K
	nosite	_			= :	ellulose				(micron): 0.4		Opening Area: mm² O Required:
<u></u>	ocidolit tinolite				_	rganic Fib			ample Volu		1806	GO Analyzed:
	molite				(5) F	ibers Cont	aining	-				Column
						· · · · · · · · · · · · · · · · · · ·		Filt	ter Accepte	ed for Analys	sis: 🔏 Y	
		va /a	_							for rejection	·	
nalyst		p lan			Scope .	27-/		Date _	4/16/10			

## Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40

				Cr	K Par	t /63 Aj	ppendi	x A to	Subpart	E			
		1000042-00 IR, Inc.	007				der ID		000042	]		d: 07-Apr-10	
Addre	ss: 11	East Super	rior Street		5	Sample ID		E-0406	10		TAT: 24 Hour		
		ite 260 luth, MN 55	S802			Location	:					esults Due	
		,								}		v. April 08, 2010 0:35 AM	
Proje		29-001								L		0:35 AM	
	Sa	mples colle	ected 04/06/1	10				Sp	ecial Instruc	ctions		]	
												]	
			NSD = No S	tructuros	Dotostod	Ctmuntum	Tomas (1	F F1					
		<u> </u>	1100 - 110 3		Delected	Structure		r = riber NGTH	WIDTH	, C = Cluster, Structure	M = Matrix } SAED	FDVA	
Grid I.D.	G.O.	Structure	Non	1	VATION	_	≥ 0.5 µm		, wildin	Type	Negative	EDXA	
1.0.	I.D.	Number	Asbestos	Chrys	Amphi	Sketch	< 5 µm	≥5 µm	μm		Number	Chrys.,Amo., Etc.	
<del> </del>	<i>H</i> %	NP		<del> </del>			<u> </u>		<del> </del>	FBCM			
	44	מא_			 					FBCM	·		
2	G5	~,0	<u> </u>							FBCM			
	67	NO								FBCM			
$\vdash$						<u> </u>				FBCM		ŧ	
<u></u>										FBCM			
ļ										FBCM			
										FBCM			
					R	<b>3</b>				FBCM			
						\\\\\				FBCM			
					_		i Ke			FBCM			
										FBCM			
										FBCM			
										FBCM			
										FBCM			
									-	FBCM			
										FBCM	f		
										FBCM			
(Total	)	Ð	Ð		venn a d						-	10.5	
Asbes	stos Fit	ers Presen		N	lonasbes	tos Fibers	Present	Filt	er Type: M0			**************************************	
Ct	nrysotil	е			_	ypsum		1 ' '''	er Size (mm)			EM Voltage (kv): 100	
	nthophy	llite			(2) G			- 1	A (sq.mm): 3	gnification (X): 19K			
	nosite				= :	ellulose			Filter Pore Size (micron): 0.45 Grid Opening Area: GO Required:				
<u> </u>	ocidolit tinolite				(4) Organic Fibers				Sample Volume (L): 1816 GO Analyzed:				
	emolite				(5) Fi	bers Cont	taining	_			-/3 Row		

Analyst \_

RICM

Date \_

27-1

Scope

Filter Accepted for Analysis:

If no, reason for rejection:

Y Yes No

		1000042-0( IR, Inc.	008			Ord	der ID	2710	00042	7	Received: 07-Apr-10		
		East Super	ior Street		5	Sample ID:	CB-OP	EN-0406	510	_		: 24 Hour	
	Su	ite 260				Location						esults Due	
	Du	luth, MN 55	802								<u>Thursday, April 08, 2010</u>		
Proje	ct: 93	29-001								L		10:35 AM	
-			cted 04/06/	10				Spe	cial Instruc	tions			
								<u> </u>	<u> </u>	<u></u>		ľ	
												İ	
	,		NSD = No S			Structure	Types: { F	= Fiber,	B = Bundle	C = Cluster,	M = Matrix }		
Grid	G.O.	Structure	Non		D VATION	1		IGTH	WIDTH	Structure	SAED	EDXA	
I.D.	I.D.	Number	Asbestos	1	Amphi	Sketch	≥ 0.5 µm < 5 µm	_ ≥ 5 μm	μm	Туре	Negative Number	Chrys.,Amo., Etc.	
1	G-2	NO						_ 0 μπ		FBCM	Number	Chrys.,Amo., Etc.	
	64	NP							-	FBCM			
	G.6	NA								FBCM			
	G-8	NO								FBCM			
	640	NA								FBCM			
2	1410	ND								FBCM			
	#8	Nρ								FBCM			
	176	NO								FBCM			
	144	_va_								FBCM			
	42	NO								FBCM			
	$\Rightarrow$									FBCM			
		]								FBCM			
						R				FBCM			
							4	16/11		FBCM			
										FBCM			
					$\longrightarrow$					FBCM			
										FBCM			
										FBCM			
(Total)		Ð	0	Annida.	. 1944	Anato divisi sumus difte					. Agent		
_		ers Present	t	onasbest	tos Fibers	Present	Filte	г Туре: МС	E	T	EM Voltage (kv): 100		
						ypsum		Filte	r Size (mm)	: 25		gnification (X): 19K	
						lass ellulose		EFA	(sq.mm) <u>: 3</u>	85		pening Area: mm²	
	╡<							Filter	Pore Size	(micron): 0.4		Required: /D	
=	<b>ゴムボール</b> 1 日 (*) (					rganic Fibe bers Conta		Sa	mple Volu	me (L):	Ø	GO Analyzed: 10	
Tre	molite				\-/ · "		iy			<i>7/υ − εω/</i> d for Analys	2-/3 Row	_Q_Column	
									-	es No			
nalyst		RIU	<u></u>		Scope _	27-	<del></del>	Date	o, reason f	or rejection			

l ah II	n. 2	7/0 000	42-0006		OIK	,			4 to Sub	part E.		<b>OC</b>	
Clien		110000				Ord	der ID	27/00	0042		Received		
Addres					5	Sample ID:	5-13	oqw	-040610		TAT:		
						Location				_	Results Due		
									LB	1	<del></del>		
Proje	ct:												
								Spe	cial Instruc	tions _			
	_		NSD = No St	tructures E	Detected	Structure T	vnes: / F	= Fiber F	2 = Pundlo /	C = Cluster, I	M = 44-4-1		
				E	D	Cardetare 7		NGTH	WIDTH	Structure	SAED	EDXA	
Grid I.D.	G.O.	Structure Number	Non Asbestos	1	VATION	Sketch	≥ 0.5 µm			Туре	Negative		
	ε9	<del></del>	710000103	Cillys	Amphi	Sketch	< 5 µm	≥ 5 µm	μm	5001	Number	Chrys.,Amo., Etc.	
	٤7	NO		<u> </u>			-	<del> </del>	-	FBCM			
		NO		-		<b>-</b>				FBCM			
	£5	~0		<b>—</b> —				<u> </u>		FBCM			
	€3	ND					ļ	<u> </u>	<u> </u>	FBCM			
_	<b>()</b>	NO								FBCM			
2	CZ	~0			-					FBCM			
	CY	NO								FBCM			
	<b>C6</b>	۵۷								FBCM			
	<u>c8</u>	NO								FBCM			
	C10	ND	<u>-</u>							FBCM			
- $$										FBCM			
										FBCM			
						84	<b>,</b> ,			FBCM			
						et ch	444	40		FBCM			
										FBCM			
										FBCM			
$\dashv$										FBCM			
										FBCM			
(Total)		Ð	0						<u> </u>				
Asbes	tos Fil	pers Presen		N	lonasbes	tos Fibers	Present	Filt	er Type: MC	E	T	EM Voltage (kv): 100	
_	rysotil			ŀ		Sypsum		- 1	er Size (mm)			gnification (X): 19K	
	thophy	/llite				Blass		EF	A (sq.mm) <u>: 3</u>	85		pening Area: 0.0/3	
	nosite ocidoli	te			= ' '	ellulose		Filte	er Pore Size	(micron): 0.4		Required: 4	
Actinolite					I I I (4) Organic Fibers I					Sample Volume (L): 1806 GO Analyzed: 4			
_	molite				Grid Box # <u>27/2~ぞ</u>						Row Q Column		
										ed for Analy		es No	
nalvet		RICH			Saara	27-1	,		no, reason	for rejection	):		



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000051

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

Company : EMR, Inc				Bill to: Same						
	or Street, Suite #260		7	Different note instructions in	<del></del>					
City: Duluth	T T T T T T T T T T T T T T T T T T T	e/Province: MN	1	requires written authoriza						
Report To (Name):		E/FIGAIIICE. MIN	Zip/Postal Code: 558		untry: USA					
			Fax #: (218) 625-2337							
Telephone #: (218)			Email Address: carney@emr-inc.com							
Project Name/Numb Please Provide Res	er: 9329-001 ults: ☐ Fax ⊠ En	nail Purchase Order	p.   11	C C4-4- C 1 7						
			Options* – Please Che	S. State Samples Ta	ken: Montana					
	Hour 📗 🔯 24 Ho	ur 48 Hour	72 Hour	96 Hour 1 1 We	ek 2 Week					
*For TEM Air 3 hours/6 l an authorization	hours, please call ahead to	schedule.*There is a premiu	m charge for 3 Hour TEM Al- e with EMSL's Terms and Co	JEDA of EDA Lavel II TAT	V					
PCM - Air	onn for this service. Allan	TEM - Air 4-4.	5hr TAT (AHERA only)	TEM- Dust	alytical Price Guide.					
☐ NIOSH 7400		AHERA 40 CFI		☐ Microvac - ASTI	M D 5755					
W/ OSHA 8hr. TW	'A	☐ NIOSH 7402	.,	☐ Wipe - ASTM D						
PLM - Bulk (reportin	g limit)	☐ EPA Level II		<u>-</u>	on (EPA 600/J-93/167)					
☐ PLM EPA 600/R-9	3/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermicu						
☐ PLM EPA NOB (<	1%)	TEM - Bulk			- A (0.25% sensitivity)					
Point Count		☐ TEM EPA NOB		I	- B (0.1% sensitivity)					
<b>400</b> (<0.25%) <b>1</b>		☐ NYS NOB 198.4	(non-friable-NY)	1	- B (0.1% sensitivity)					
Point Count w/Gravim	- · -	☐ Chatfield SOP			- C (0.01% sensitivity)					
☐ <b>400</b> (<0.25%) ☐ 1	•		ysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)						
NYS 198.1 (friable	•	TEM - Water: EPA	100.2	☐ EPA Protocol (Q	uantitative)					
☐ NYS 198.6 NOB (I			Waste Drinking	Other:						
☐ NIOSH 9002 (<1%			Waste Drinking							
	U Cneck For	Positive Stop – Cle	arly Identify Homoge	enous Group						
Samplers Name: Mik	e Mckay		Samplers Signature:	Mike	nekay					
Sample #		Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled					
P-TC-040710	Ta Ca Ca 5.1				Gumpiou					
F-10-040710	Tony Cox-Group-5-I	MP-1311.63-1310.8	RKan	934	4-7-10-07:54-15:41					
P-SH-040710	Sean Hunter-Machir	ne Operator-MP-1311.6	63-1310.8	854	4-7-10-07:56-15:03					
P-MO-040710	Mike O'Mary-Labor-	MP-1311.63-1310.8		864	4-7-10-07:57-15:09					
P-EH-040710	Eric Hofpar-Machine	Operator-MP-1311.63	I-1310.8	856	4-7-10-07:58-15:06					
P-JH-040710		Man-MP-1311.63-131	· · · · · · · · · · · · · · · · · · ·							
S-1310.6W040710			0.0	864	4-7-10-07:59-15:11					
	MP-1311.63-1310.8-V			2422	4-7-10-08:24-14:10					
S-1310.7E040710	MP-1311.63-1310.8-E	astend		2422	4-7-10-08:26-14:12					
BK-040710	BK-Opened			0	4-7-10					
Client Sample # (s):	Mike Mckay	-	1	Total # of Samples:	8					
Relinquished (Client):	Mike McKay	Date:	4-8-10	Time	: 13:17					
Received (Lab):	Masiary	Date:	4/4/10	Time	: 1317h					
Comments/Special In	structions:									



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestosiab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID:

EMRI78

11 East Superior Street

Customer PO:

04/08/10 1:17 PM

Suite 260

**Duluth, MN 55802** 

Received: EMSL Order:

271000051

Fax:

(218) 625-2337

Phone: (218) 625-2332

EMSL Proi:

Project: 9329-001

Analysis Date:

4/21/2010

Samples collected 4/7/2010

Sampling Date:

4/7/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structus ≥ 0.5µ < 5µ	es ≥5µ	Analytical Sensitivity (S/cc)	Asbo Concen (S/m m²)	_
P-TC-040710 271000051-0001		934.00	0.0910		None Dete			0.0045	<11.00	<0.0045
P-SH-040710 271000051-0002		854.00	0.0910		None Dete	cted		0.0050	<11.00	<0.0050
P-MO-040710 271000051-0003		864.00			Overloadeo	I			_	
P-EH-040710 271000051-0004		856.00			Filter Dama	ıged				
P-JH-040710 271000051-0005		864.00		<u> </u>	Overloaded		· <u>, </u>			
S- 1310.6W040710 271000051-0006		2422.00	0.0520		None Detec	cted		0.0031	<19.00	<0.0031
S-1310.7E040710 271000051-0007		2422.00	0.0520		None Detec	eted	<del></del>	0.0031	<19.00	<0.0031
BK-040710 271000051-0008			0.1300		None Detec	ted	<del></del>		<7.70	<b>W</b> est

Analyst(s)

Ron Mahoney (5)

R. K. Mahoney, Laboratory Manager or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066

Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

11 East Superior Street

Samples collected 4/7/2010

Suite 260

9329-001

Fax:

Project:

**Duluth, MN 55802** 

(218) 625-2337

Phone: (218) 625-2332

EMSL Proj:

Analysis Date:

Customer ID:

Customer PO:

EMSL Order:

Received:

4/21/2010

**EMRI78** 

271000051

04/08/10 1:17 PM

Sampling Date:

4/7/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for **Indirect Prep)**

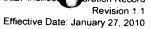
Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Sensitivity (S/cc)	Total A Concen (S/mm²)	<b>-</b>
P-MO-040710 271000051-0003		864.00	0.1300		None Dete	ected	0.0130	<29.00	<0.0130
P-JH-040710 271000051-0005		864.00	0.1300		None Dete	ected	0.0064	<14.00	<0.0064

Analyst(s)

Ron Mahoney (2)

R. K. Mahoney, Laboratory Manager or other approved signatory

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT





## **EMSL27 INDIRECT PREPARATION RECORD**

EMSL Analytical Inc., Libby, MT

Order 10: 2710 000 51 Circle One: TEM Air TEM Dust TEM Wipes PCM EFA: Prepared By: K 360 mm²

*	Aaterial	Res	Ashed Sample: uspension with A			on-AshedSamp spensionwithout		2n	dresuspensio		ionFiltration 3rd	dresuspensio	on	ž s
Sandle*	Loose Material	Filter Fraction	Resuspended volume	Vol.applied to filter	Filter Fraction	Resuspended volume	Vol.applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol.applied to filter	Vol of 2nd resuspension used	Resuspend volume	Vol.applied to filter	Prepared for Analysis
	Y/N	fraction	mL_	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
P-MO-040710	4				11	100	10							
							15							
							25							
P.JH DUGNO	Ч						50							7
4-744 admin	۲		11	100	. h	100	10				44.			Y
							15							
31.20							25			and the		120		
mB							50							
						100	100							Y
	7													
			743	ر ع	l e								91	
				V <sub>S</sub>					44.1				100	
		4 (4)		- 39	2	*								
												<del> </del>		
							$\overline{}$							



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

271000052

EMSL ANALYTICAL, INC. 107 W. FOURTH ST. LIBBY, MT 59923

PHONE: (406) 293-9066 FAX: (406) 293-7016

ı			FMCI DILLA CI O CI DIC							
Company : EMR, In	C		EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**							
Street: 11 E. Superi	or Street, Suite #260									
City: Duluth		Province: MN	Zip/Postal Code: 558	requires written authoriz						
Report To (Name):		TOTALIOU: IMIX								
Telephone #: (218)			Fax #: (218) 625-2337							
Project Name/Numb			Email Address: carney@emr-inc.com							
Please Provide Res		il Purchase Order	er: U.S. State Samples Taken: Montana							
			Options* – Please Ch	.S. State Samples 1	aken: Montana					
3 Hour	6 Hour   🔯 24 Hour	A8 Hour	72 Have	00 11	ek 2 Week					
"For TEM Air 3 hours/6 an authorization	hours, please call ahead to sch form for this service. Analysis	nedule.*There is a premiu	m channe for 2 Harm TC14 A	UCDA						
PCM - Air	Turdiyas	TEM - Air 4-4.	5 Will EMSL'S Terms and Co 5 hr TAT (AHERA only)	TEM- Dust	alytical Price Guide.					
☐ NIOSH 7400		AHERA 40 CFF		☐ Microvac - AST	M D 6766					
w/ OSHA 8hr. TV	<b>/</b> A	☐ NIOSH 7402	·, · a. · · · · · ·	☐ Wipe - ASTM D						
PLM - Bulk (reporting	g limit)	☐ EPA Level II		<u> </u>	on (EPA 600/J-93/167)					
☐ PLM EPA 600/R-9		☐ ISO 10312		Soil/Rock/Vermic						
☐ PLM EPA NOB (<	1%)	TEM - Bulk			5 - A (0.25% sensitivity)					
Point Count		☐ TEM EPA NOB			6 - B (0.1% sensitivity)					
□ 400 (<0.25%) □ 1		☐ NYS NOB 198.4	(non-friable-NY)	☐ TEM CARB 435	5 - B (0.1% sensitivity)					
Point Count w/Gravim		☐ Chatfield SOP		☐ TEM CARB 435	i - C (0.01% sensitivity)					
☐ 400 (<0.25%) ☐ 1	•		sis-EPA 600 sec. 2.5		EPA Protocol (Semi-Quantitative)					
NYS 198.1 (friable	•	TEM - Water: EPA		☐ EPA Protocol (0	Quantitative)					
☐ NYS 198.6 NOB (	-	Fibers >10µm 🔲		Other:						
☐ NIOSH 9002 (<1%		All Fiber Sizes								
	☐ Check For P	ositive Stop – Clea	arly Identify Homog	enous Group						
Samplers Name: Mik	e Mckay		Samplers Signature:	m '14 - 2						
_			Cumplers Signature.	Volume/Area (Air)						
Sample #		Sample Description		HA # (Bulk)	Date/Time Sampled					
P-JH-040810	John Hobbs-Section N	for ND 4200 00 400	0.40							
	COMI MODUS-SECUOII N	Man-MP-1308.92-130	8.49 R/m	744	4-8-10-08:01-14:13					
P-RH-040810 ~	Ron Hayes-Section Ma	n-MP-1308.92-1308.	49	740	4-8-10-08:04-14:14					
P-CP-040810	Comen Dears Track				1 0 10 00.04 14.14					
. 0. 040010	Carson Poore-Trackma	an-MP-1308.92-1308.	.49	742	4-8-10-08:06-14:17					
P-RT-040810	Ryan Tucker-Welder-M	IP-1308.92-1308.49		744	4-8-10-08:07-14:19					
P-BG-040810			7		4-0-10-00.07-14:19					
1-50-040010	Brian Gartman-Group-	5-MP-1308.92-1308.4	19	732	4-8-10-08:10-14:16					
S-1308.70W040810	MP-1308.92-1308.49-W	estend		3080	4 9 40 00 07 45 57					
S 4200 74F040040				3000	4-8-10-08:37-15:57					
S-1308.71E040810	MP-1308.92-1308.49-Ea	stend		3080	4-8-10-08:39-15:59					
BK-040810	BK-Opened			n	4 9 40					
Client Sample # (s):	Mike Mckay			0 Fotal # of S	4-8-10					
Relinquished (Client):				Total # of Samples:	8					
	Mike McKay	Date:	4-9-10	Time	»: 11:54					
Received (Lab):	216 Makona	Date:	4/9/10	Time						
Comments/Special In	structions:			1 1/116	" //2 /					
					f					



107 West 4th Street, Libby, MT 59923

Phone: (406) 293-9066 Email: mobileasbestoslab@emsl.com

Attn: Scott Carney

EMR, Inc.

Customer ID: Customer PO: EMRI78

11 East Superior Street

Received:

04/09/10 11:54 AM

Suite 260

**Duluth, MN 55802** 

EMSL Order:

271000052

Fax:

(218) 625-2337

Phone: (218) 625-2332

EMSL Proj:

Project: 9329-001

Samples collected 4/8/2010

Analysis Date:

4/22/2010

Sampling Date:

4/8/2010

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Sensitivity (S/cc)		estos stration (S/cc)
P-JH-040810 271000052-0001		744.00	0.1040		None Dete	ected	0.0050	<9.60	<0.0050
P-RH-040810 271000052-0002		740.00	0.1170		None Dete	ected	0.0044	<8.50	<0.0044
P-CP-040810 271000052-0003		742.00	0.1040		None Dete	ected	0.0050	<9.60	<0.0050
P-RT-040810 271000052-0004		744.00			Overloade	d	<del></del>	<u>.</u>	- "
P-BG-040810 271000052-0005		732.00	0.1170		None Dete	ected	0.0045	<8.50	<0.0045
S- 1308.70W040810 271000052-0006		3080.00	0.0520		None Dete	cted	0.0024	<19.00	<0.0024
S- 1308.71E040810 271000052-0007		3080.00	0.0520	· · · · · · · · · · · · · · · · · · ·	None Dete	cted	0.0024	<19.00	<0.0024
BK-040810 271000052-0008			0.1300		None Dete	cted		<7.70	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0



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11 East Superior Street

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Project: 9329-001

Fax:

Samples collected 4/8/2010

Phone: (218) 625-2332

EMSL Proi: Analysis Date:

Customer ID:

Customer PO:

EMSL Order:

Received:

4/22/2010

Sampling Date:

4/8/2010

EMRI78

271000052

04/09/10 11:54 AM

### Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)			Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ ≥5µ	Analytical Sensitivity (S/cc)	Total A Concen (S/mm²)	
P-RT-040810 271000052-0004		744.00	0.1300		None Dete	ected	0.0150	<29.00	<0.0150

Analyst(s)

Roy Pescador (1)

R. K. Mahoney, Laboratory Manager or other approved signatory

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